

FIG. 1

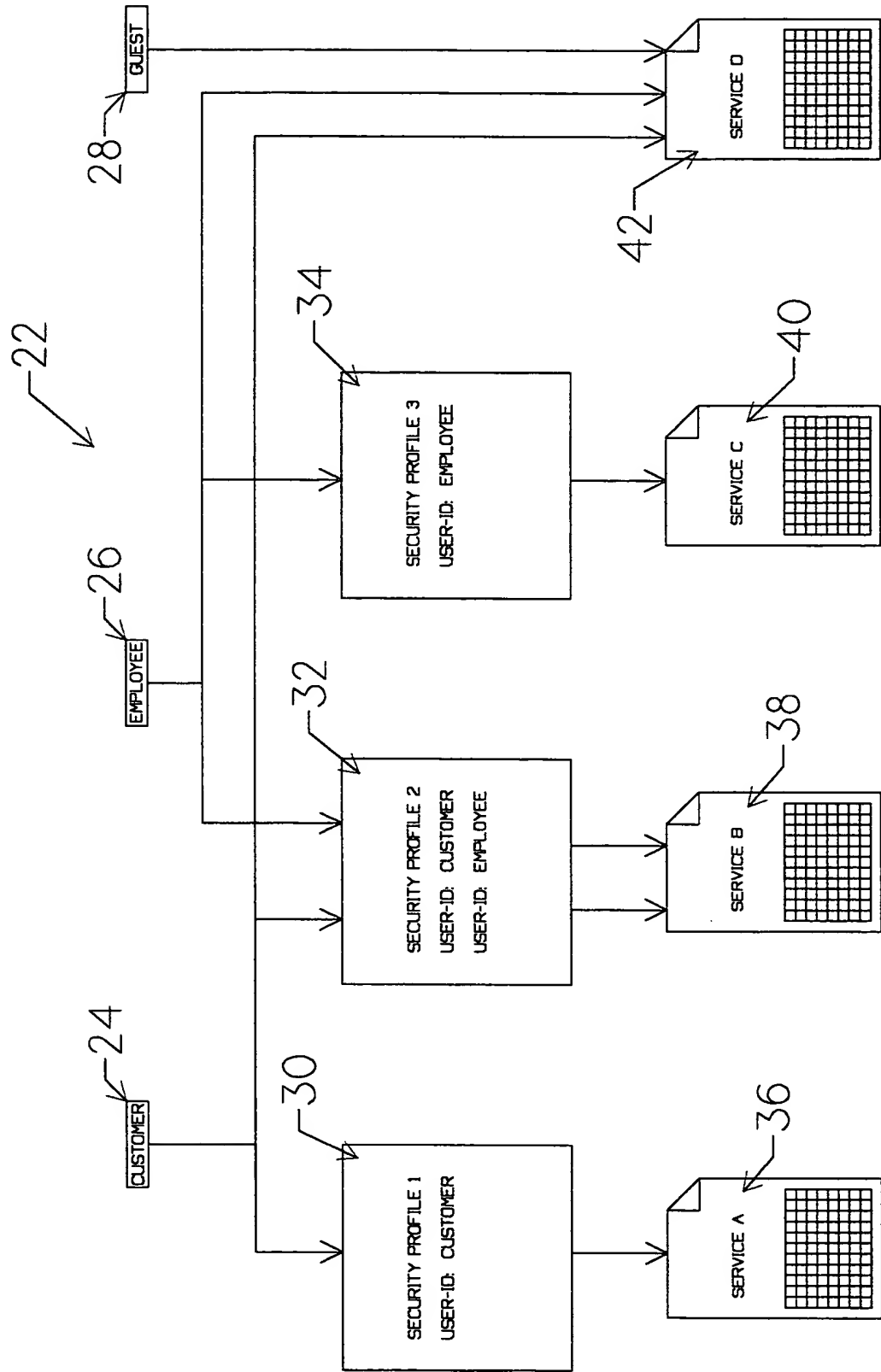


FIG. 2

FIG. 3 is a block diagram of a network system 44, in accordance with one embodiment of the present invention. The network system 44 includes a client 46, a web server 50, an enterprise server 54, and a departmental server 58. The client 46 is connected to the web server 50 via a network 48. The web server 50 is connected to the enterprise server 54 via a network 52. The enterprise server 54 is connected to a database 56. The departmental server 58 is connected to a database 60.

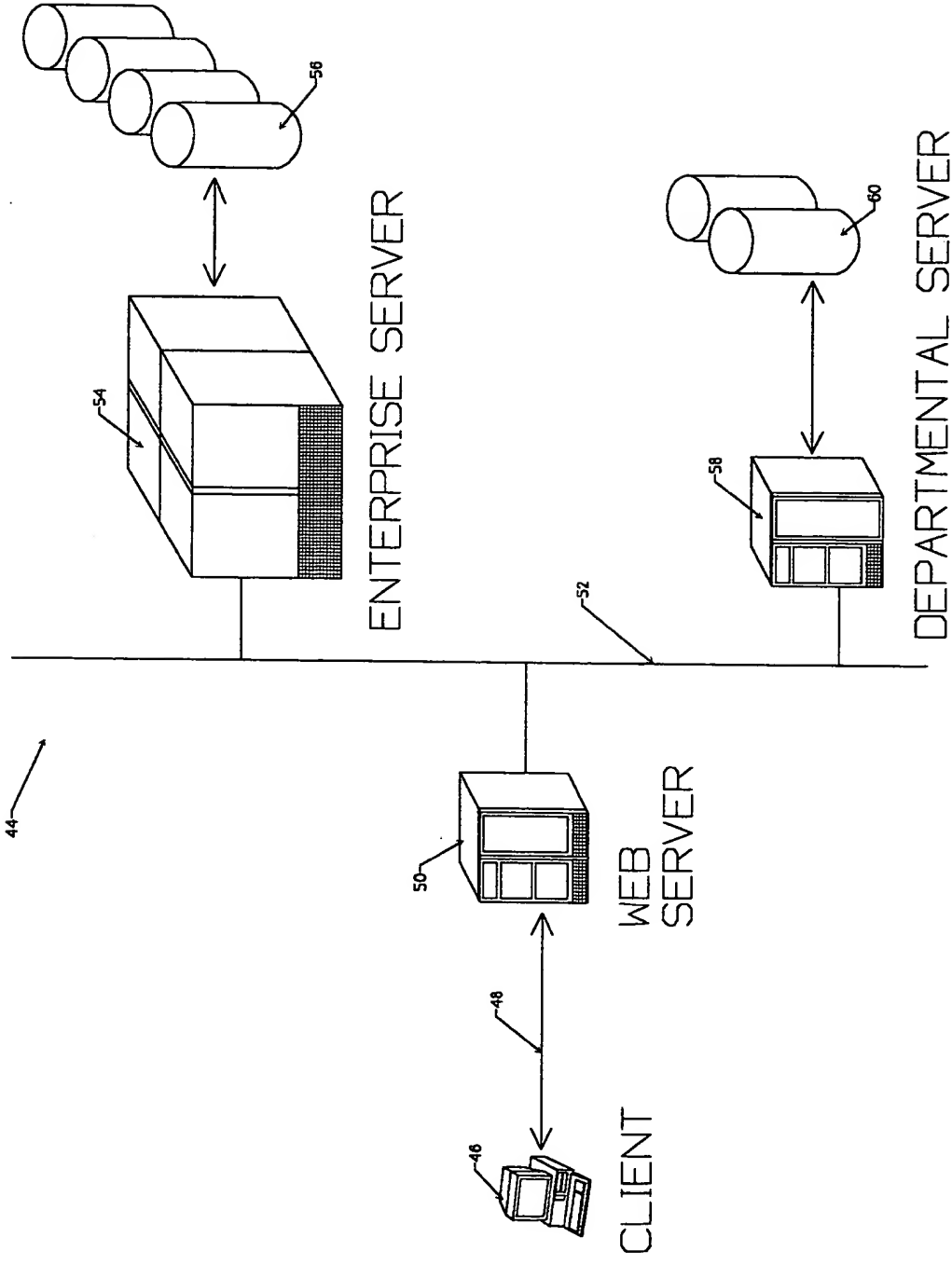


FIG. 3

FIG. 4 is a block diagram of a Cool Ice system architecture. The system includes a Client (64) connected to a Web Server (Cool Ice Domain) (66). The Web Server contains an ASP Proc. (68) with an ASP (Open Serve) (70) and a Default ASP (Native Service) (72). The ASP (Open Serve) (70) is connected to a Cool Ice Object (74). The Cool Ice Object (74) is connected to a Cool Ice Engine (76). The Cool Ice Engine (76) is connected to a Graphing Engine (78). The Cool Ice Engine (76) is also connected to a Repository (80). A Cool Ice Administrator (82) is connected to the Repository (80). The Cool Ice Engine (76) is connected to an Enterprise Server (86) and a Departmental Server (88).

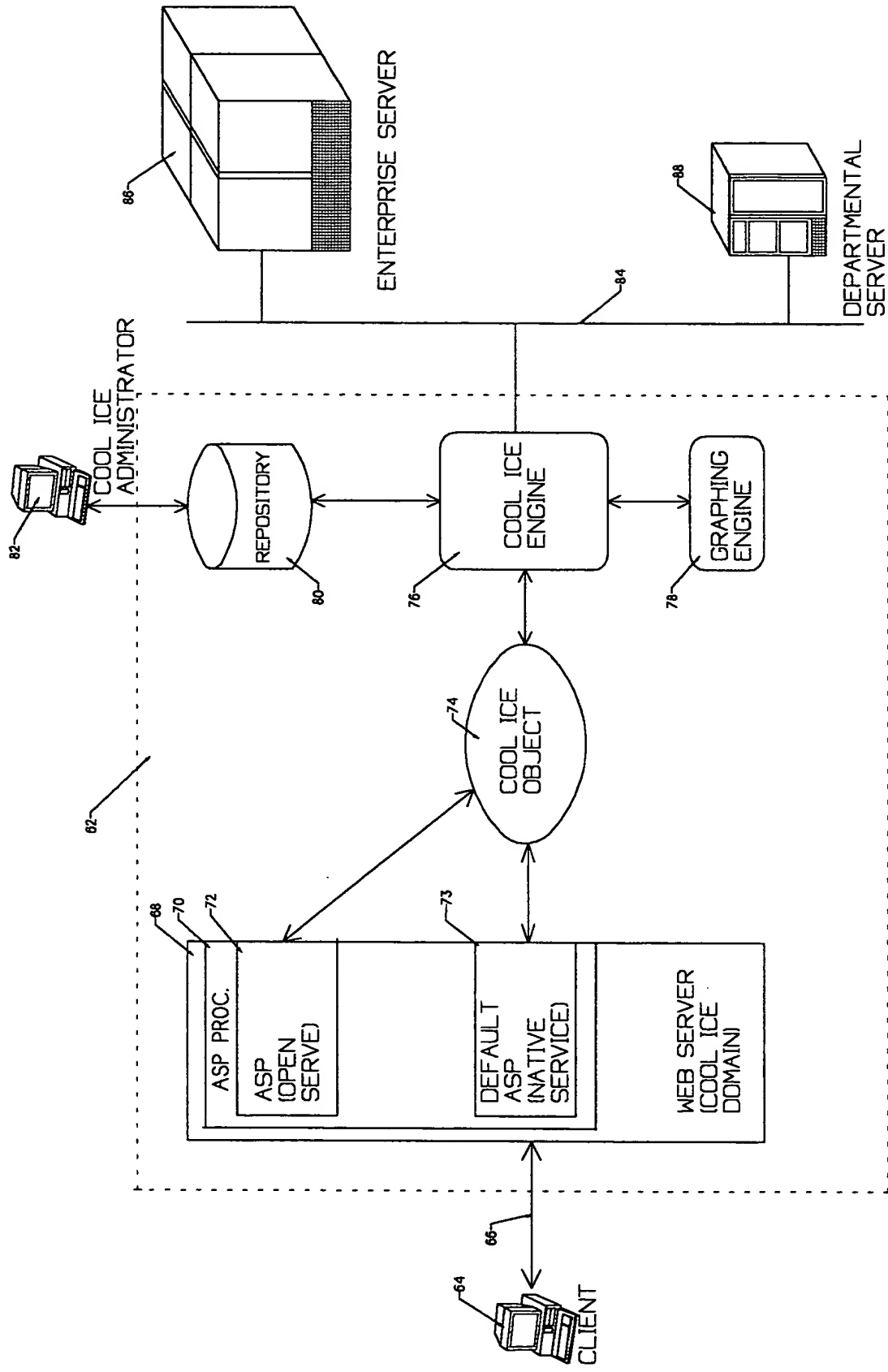


FIG. 4

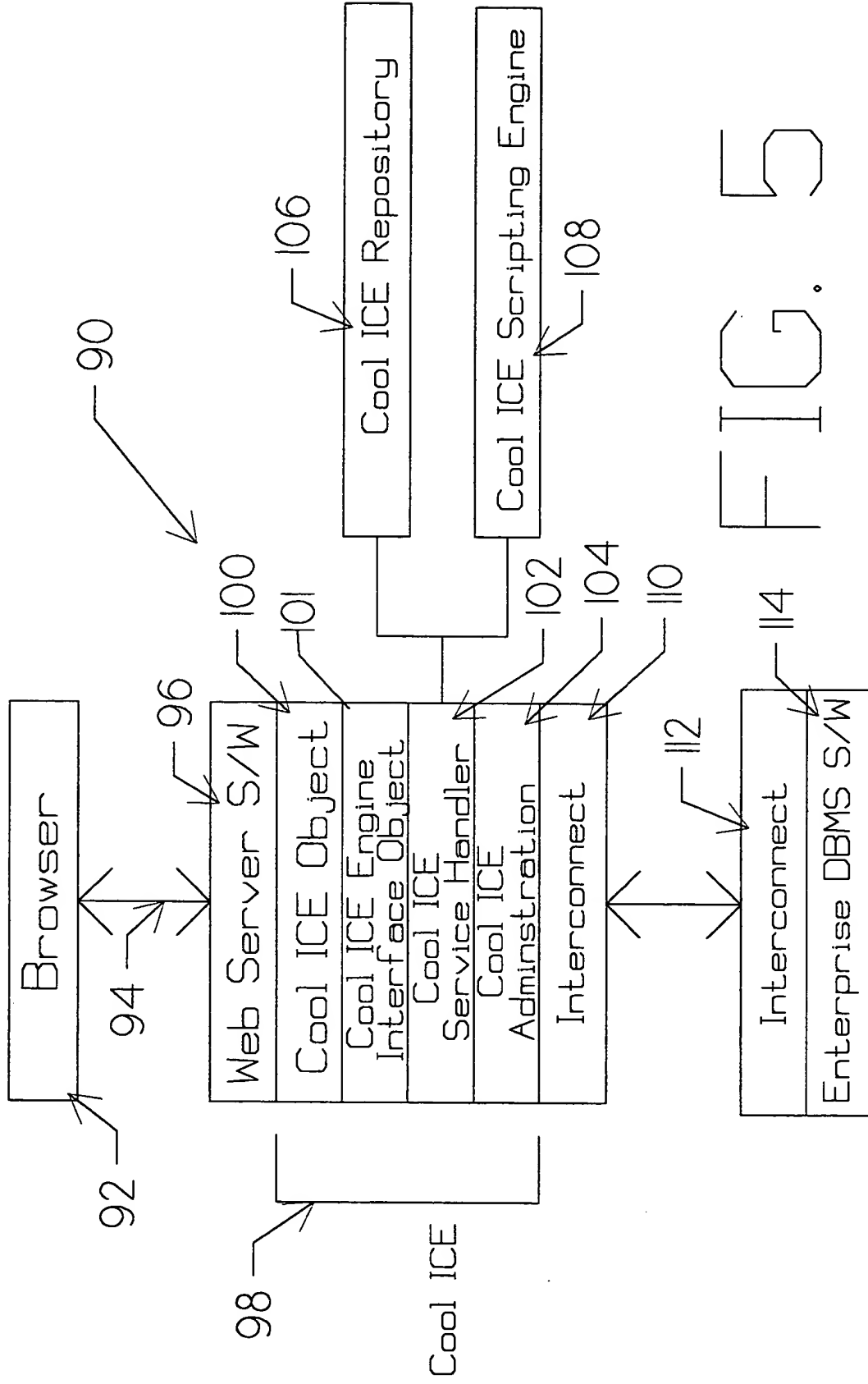


FIG. 5

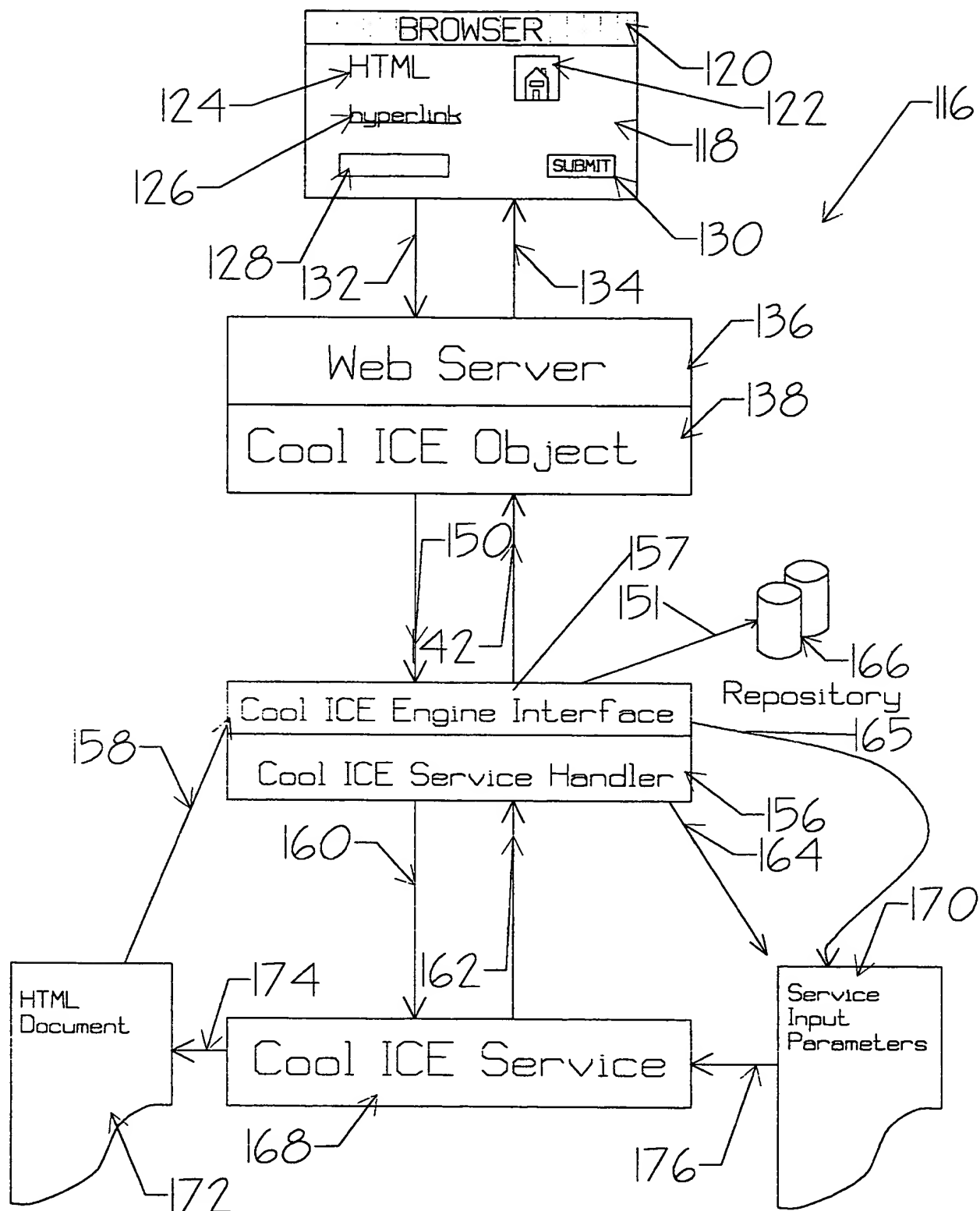


FIG. 6

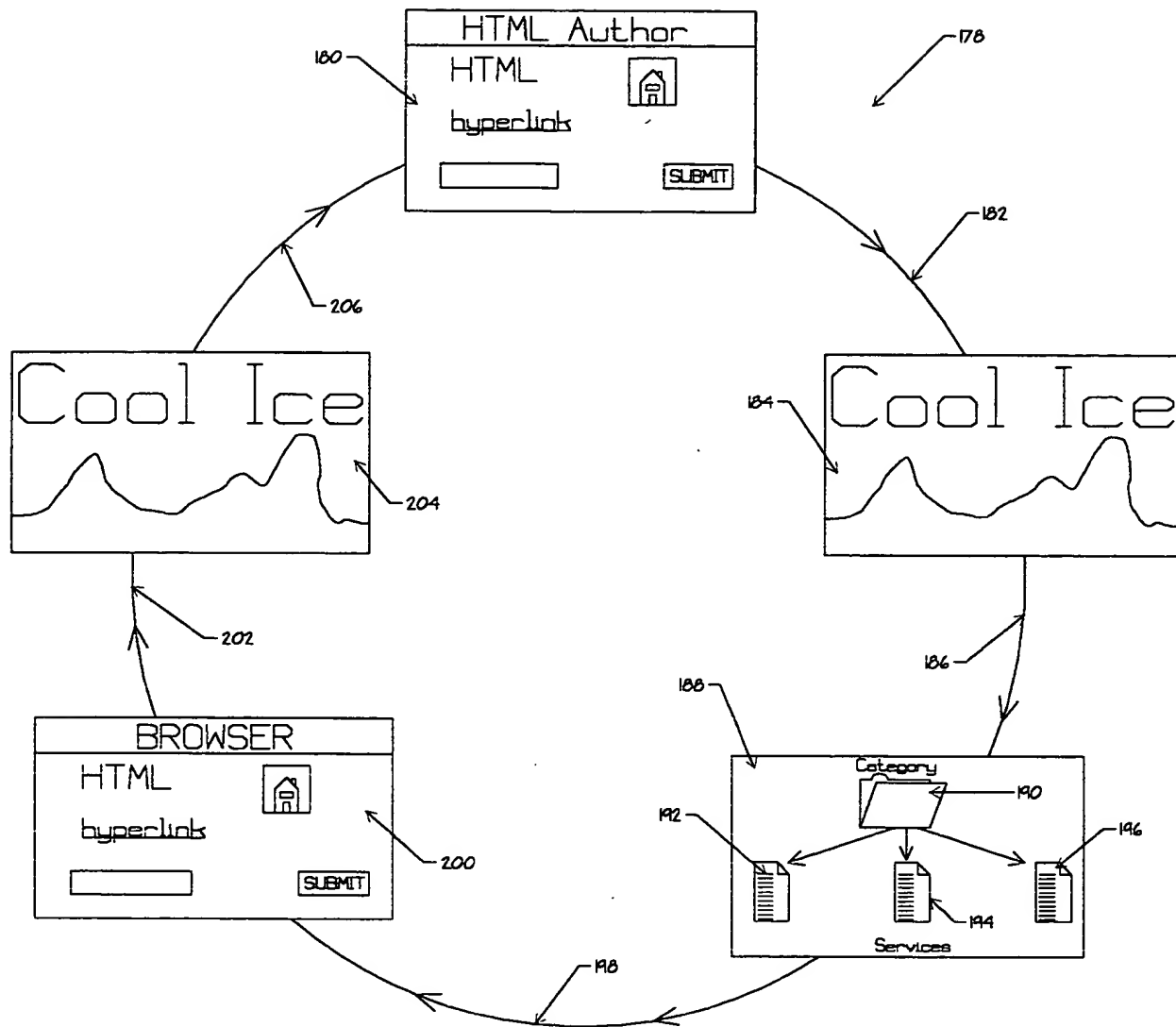


FIG. 7

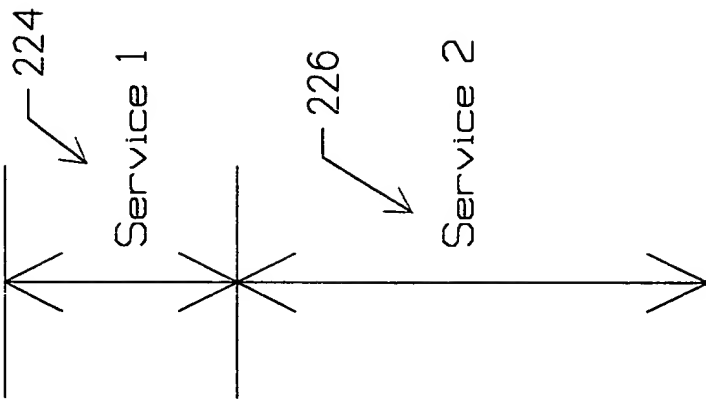
210

Dialog-based Structure

Output Screen
Suspend
Validate Input
Process
Output

Service-based Structure

Output Form
Terminate
Validate Input
Process
Output
Terminate



208

FIG. 8

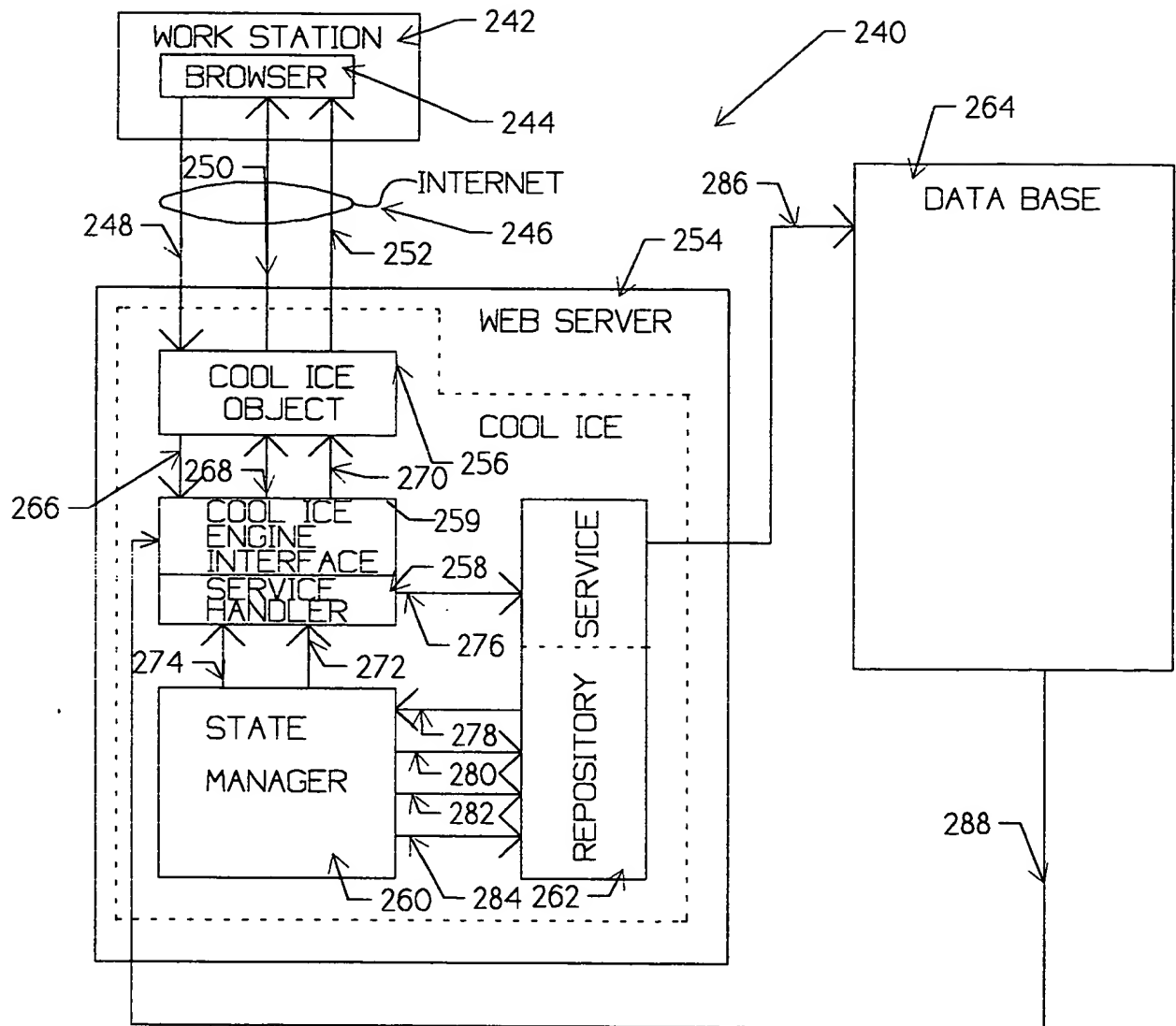


FIG. 9

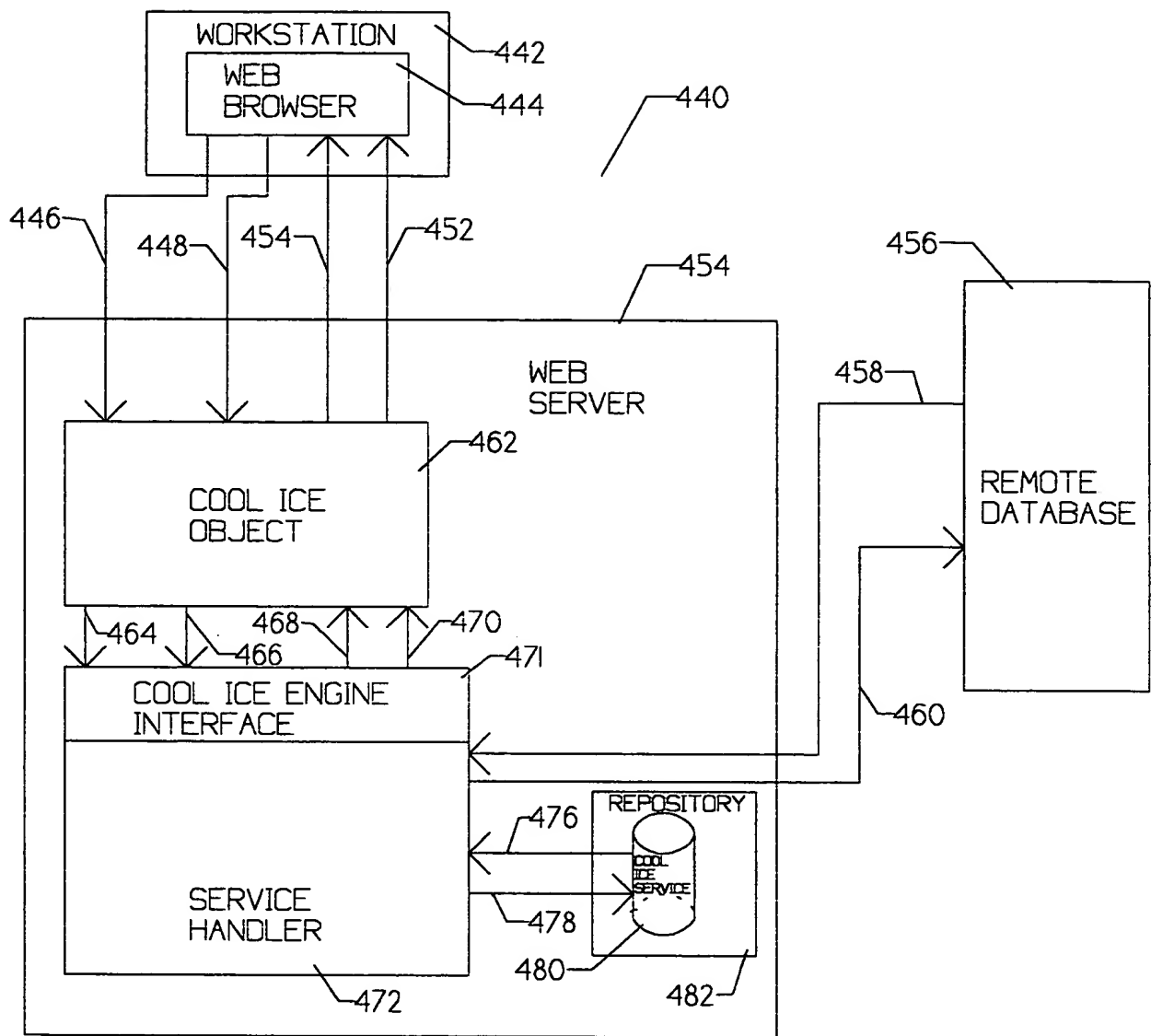


FIG. 10

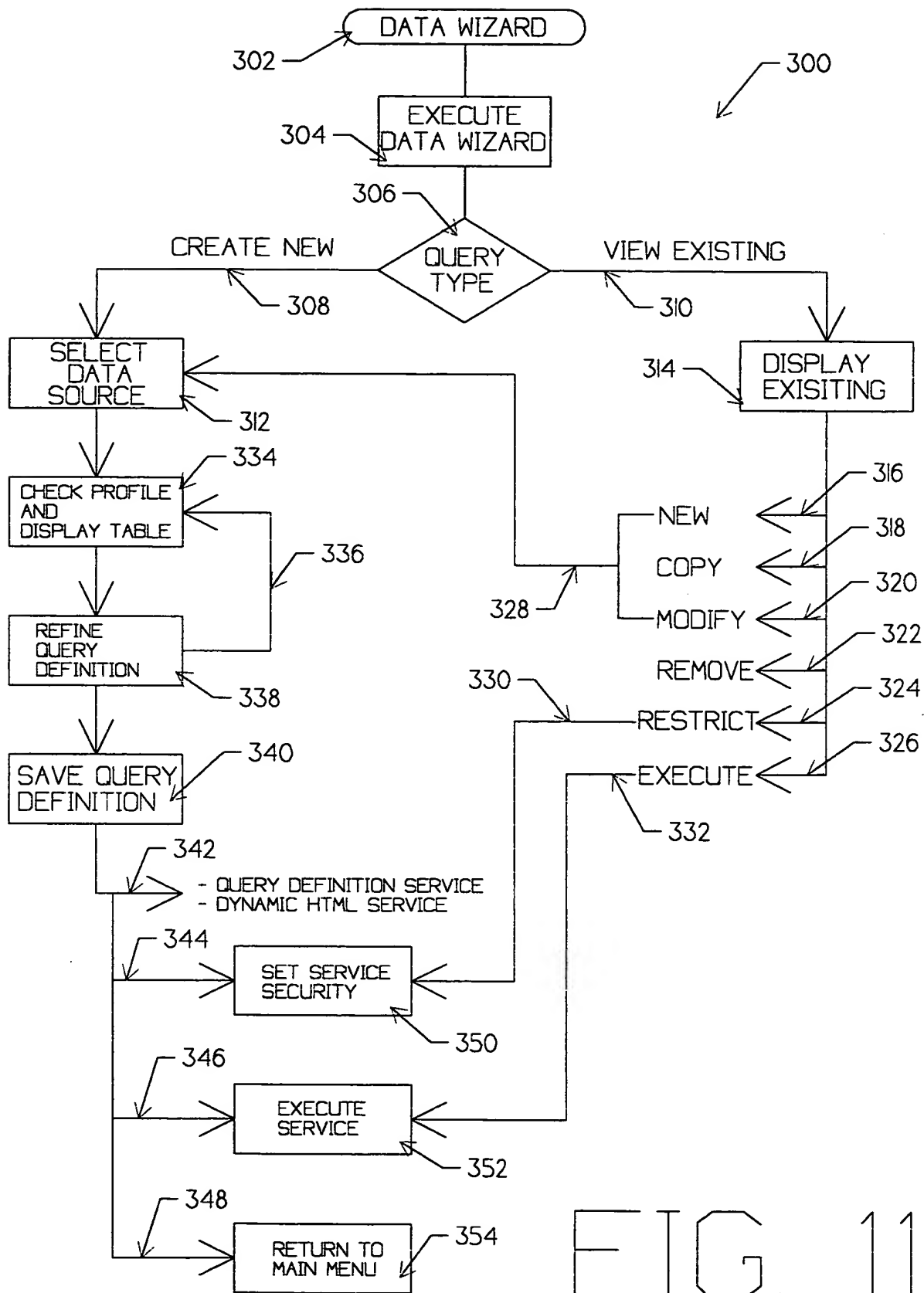


FIG. 11

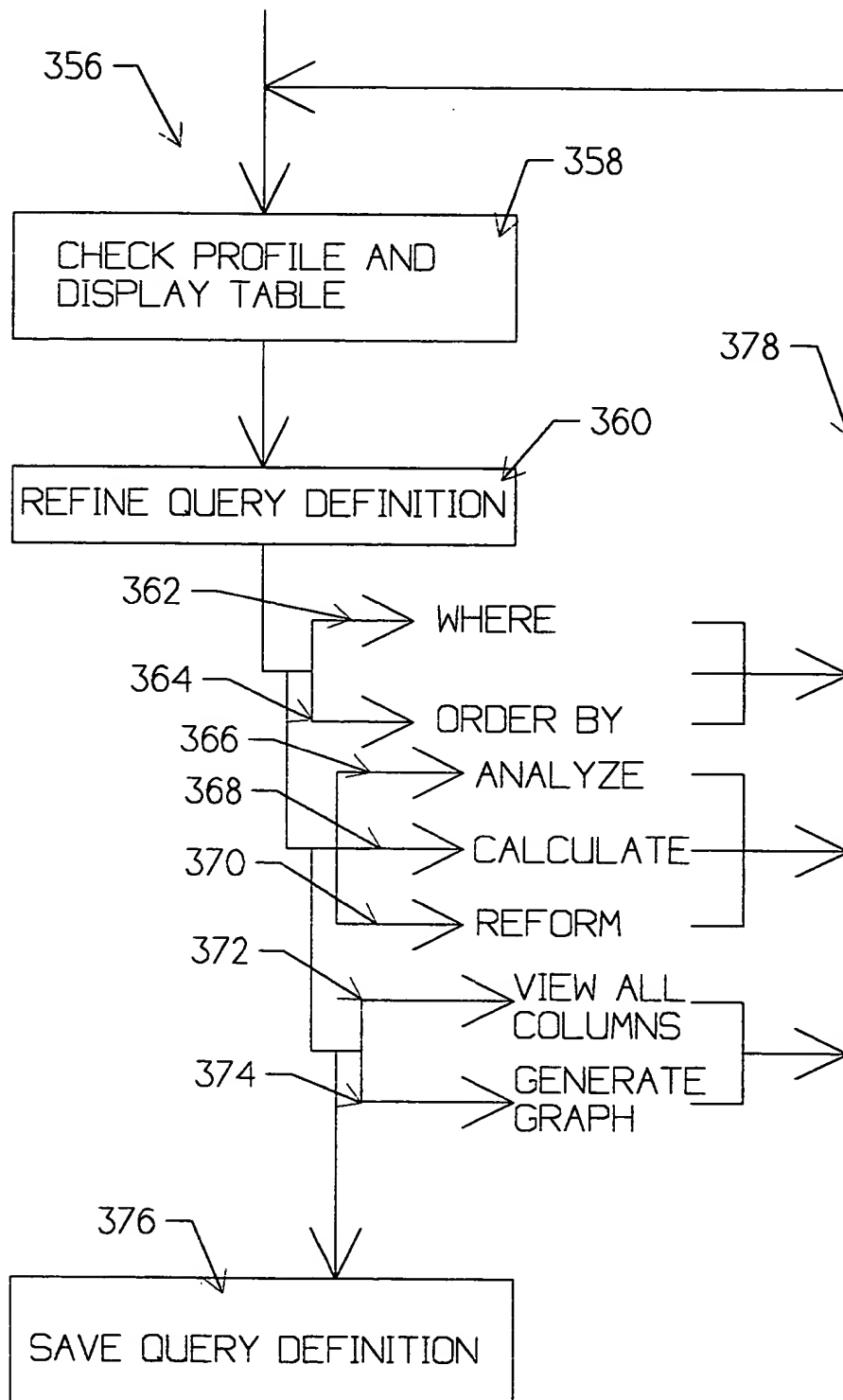


FIG. 12

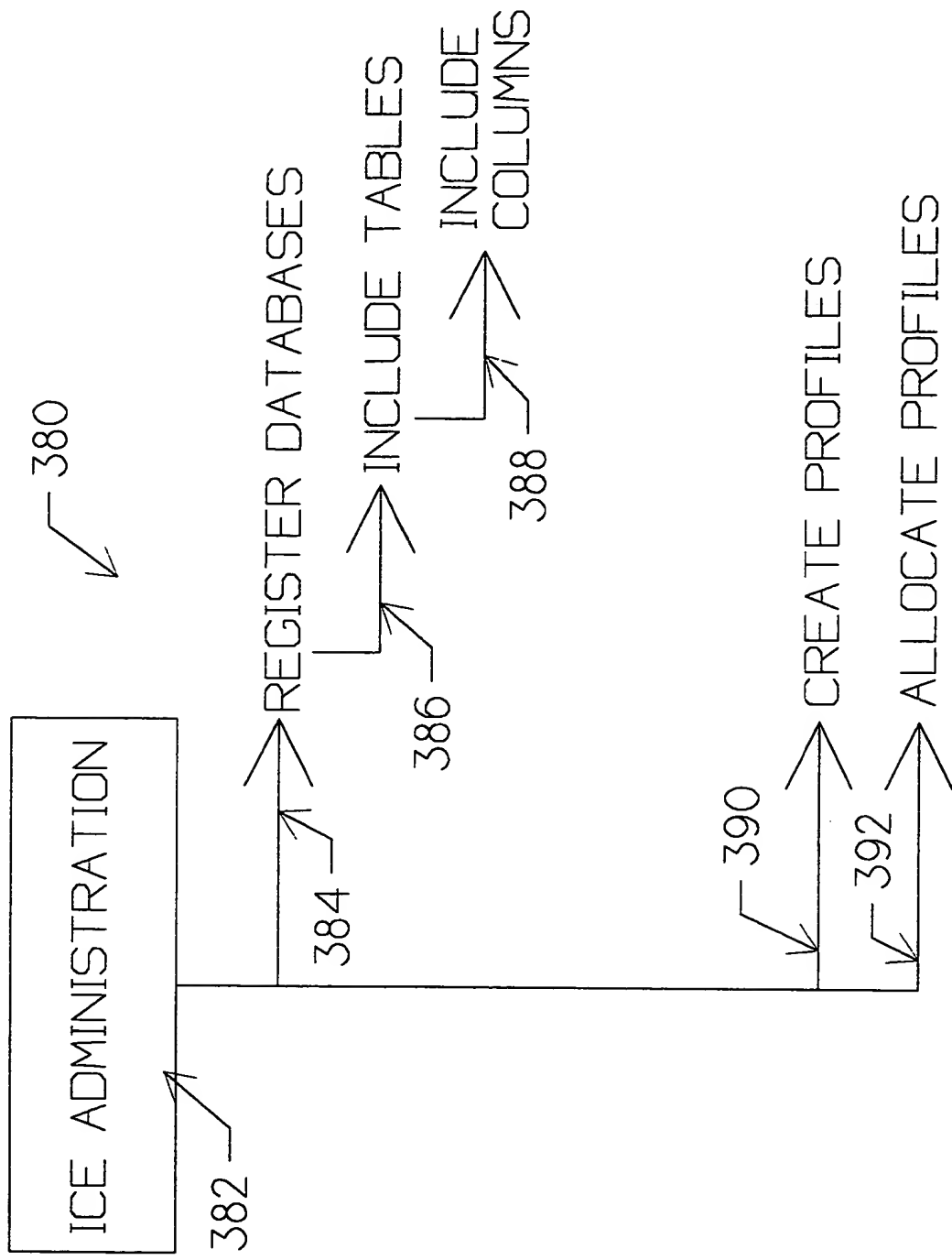


FIG. 13

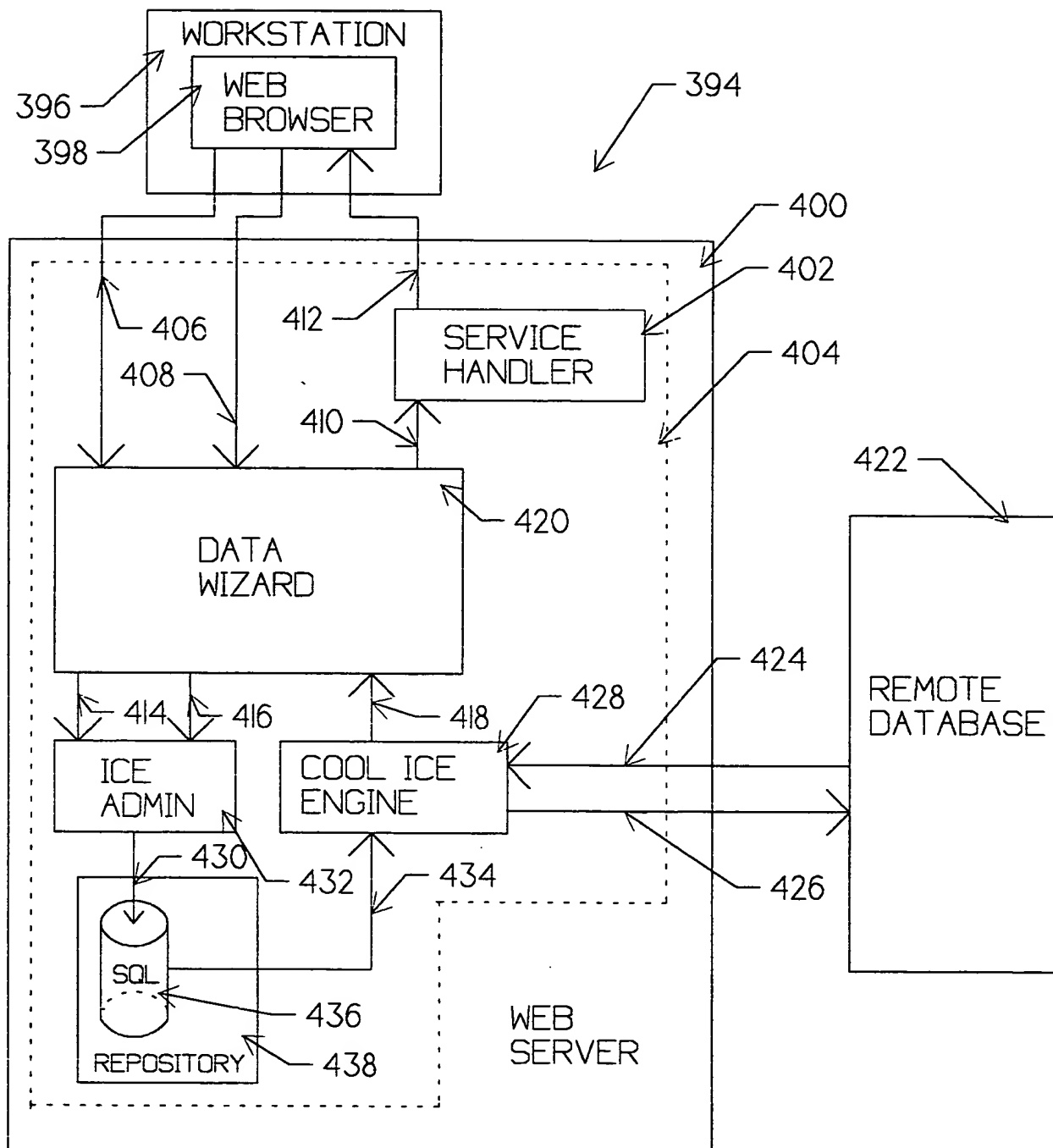


FIG. 14

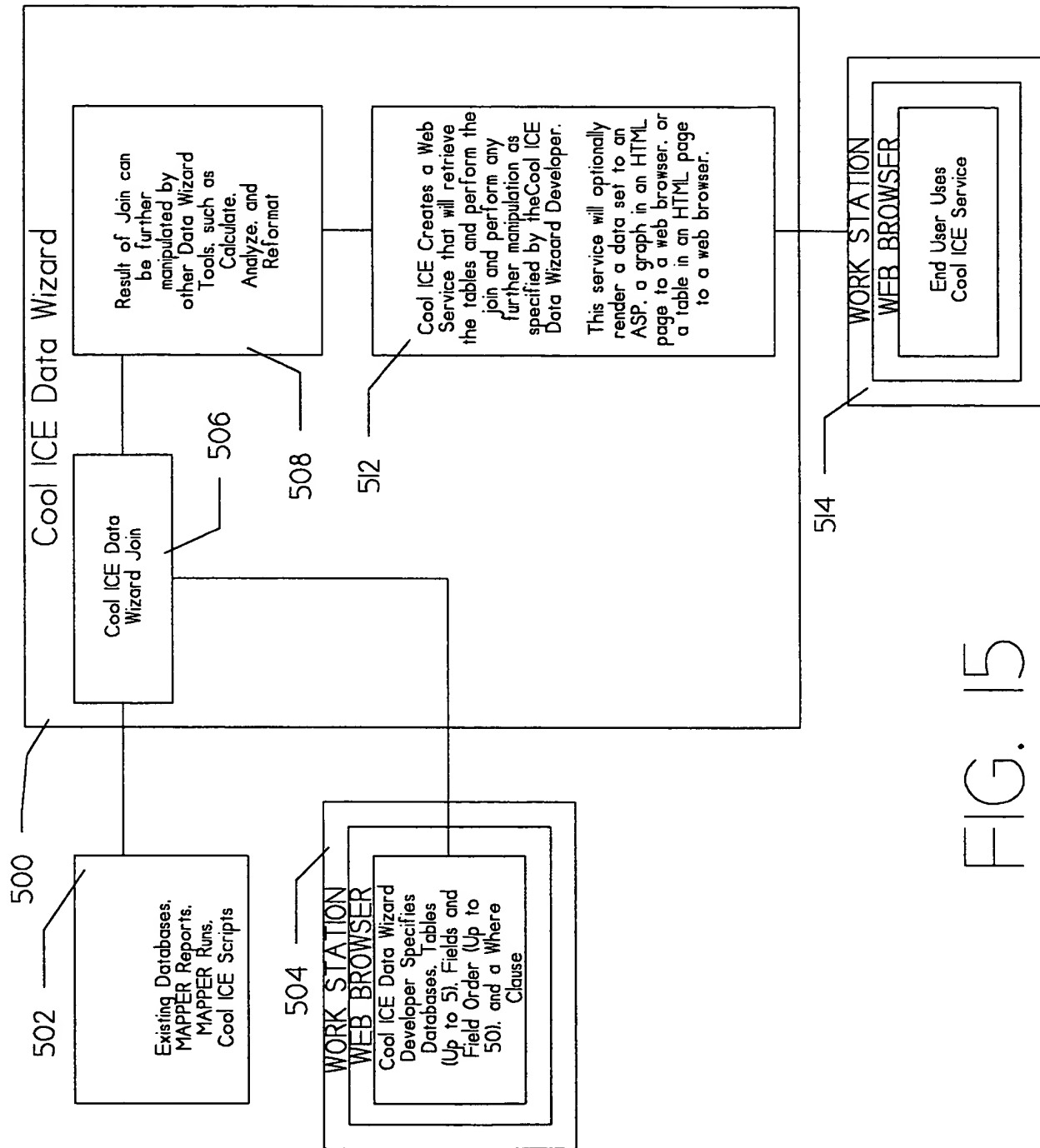
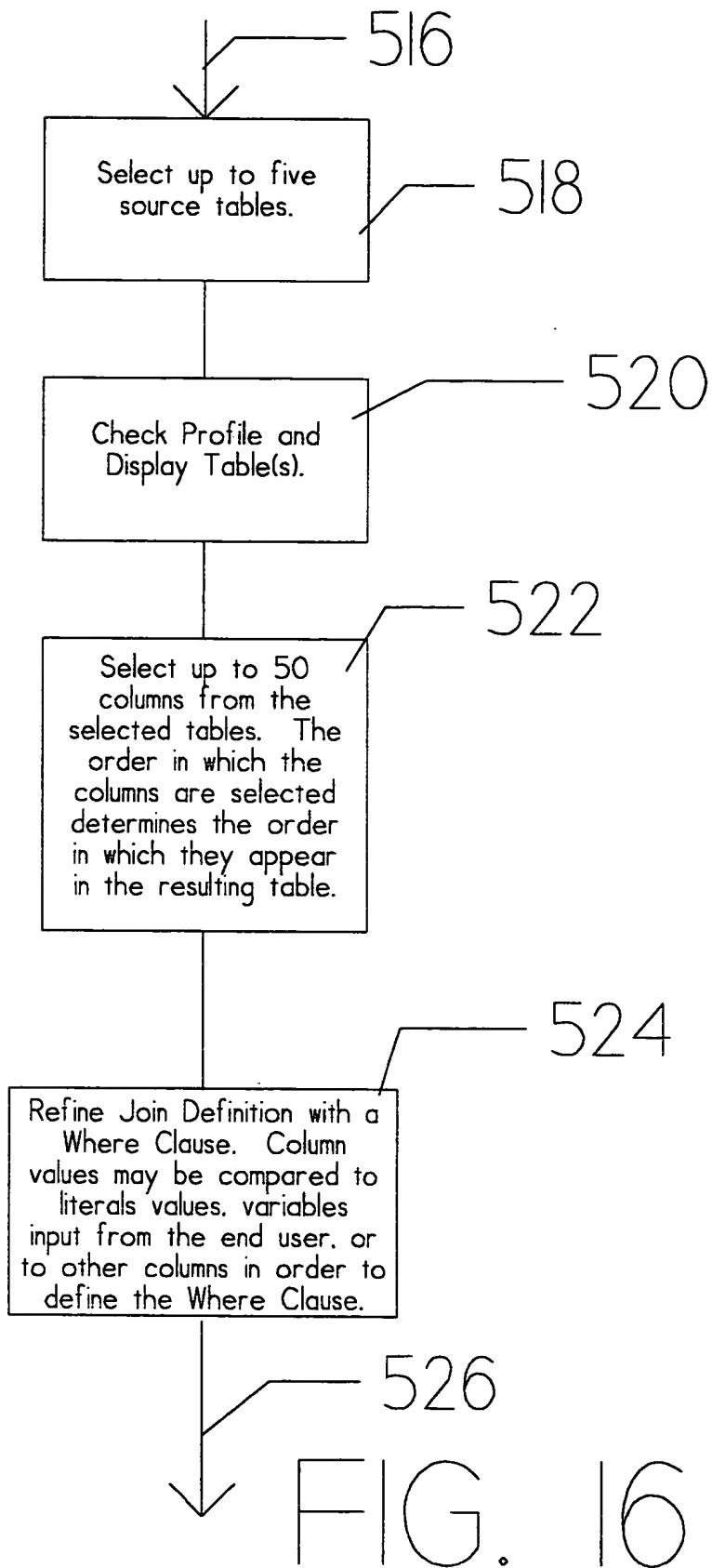


FIG. 15



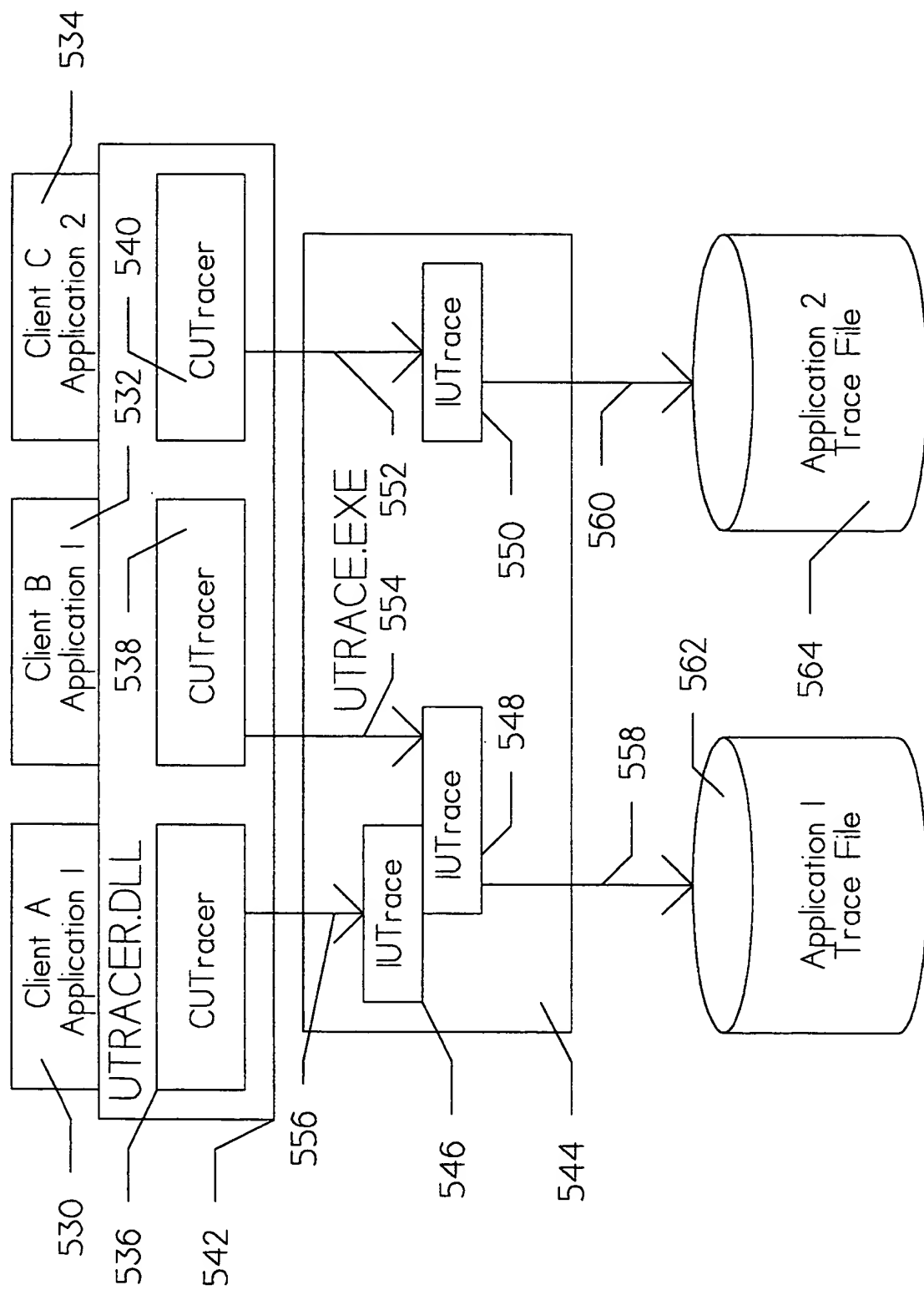


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

APPNAME -- Subkey matching the name of the application

ENABLETRACE	-- DWORD value indicating a Boolean (1=trace., 0=no trace).
MAXENTRIES	-- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.
FORMATFLAGS	-- DWORD value indicating message formatting flags.
POLICYFLAGS	-- DWORD value indicating trace policy flags set for the application.
TRACELEVEL	-- DWORD value indicating a trace level. 0 = no trace.
TRACEPATH	-- String value indicating the directory path for the trace files.
REGTRACE	-- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.
COMPONENT	-- A subkey for a specific component of the application.
POLICYFLAGS	-- Value indicating component level trace policy flags
TRACELEVEL	-- DWORD Value indicating a trace level. 0 = no trace.
VERSIONTRACE	-- String value specifying executable component name for version information tracing.

FIG. 18

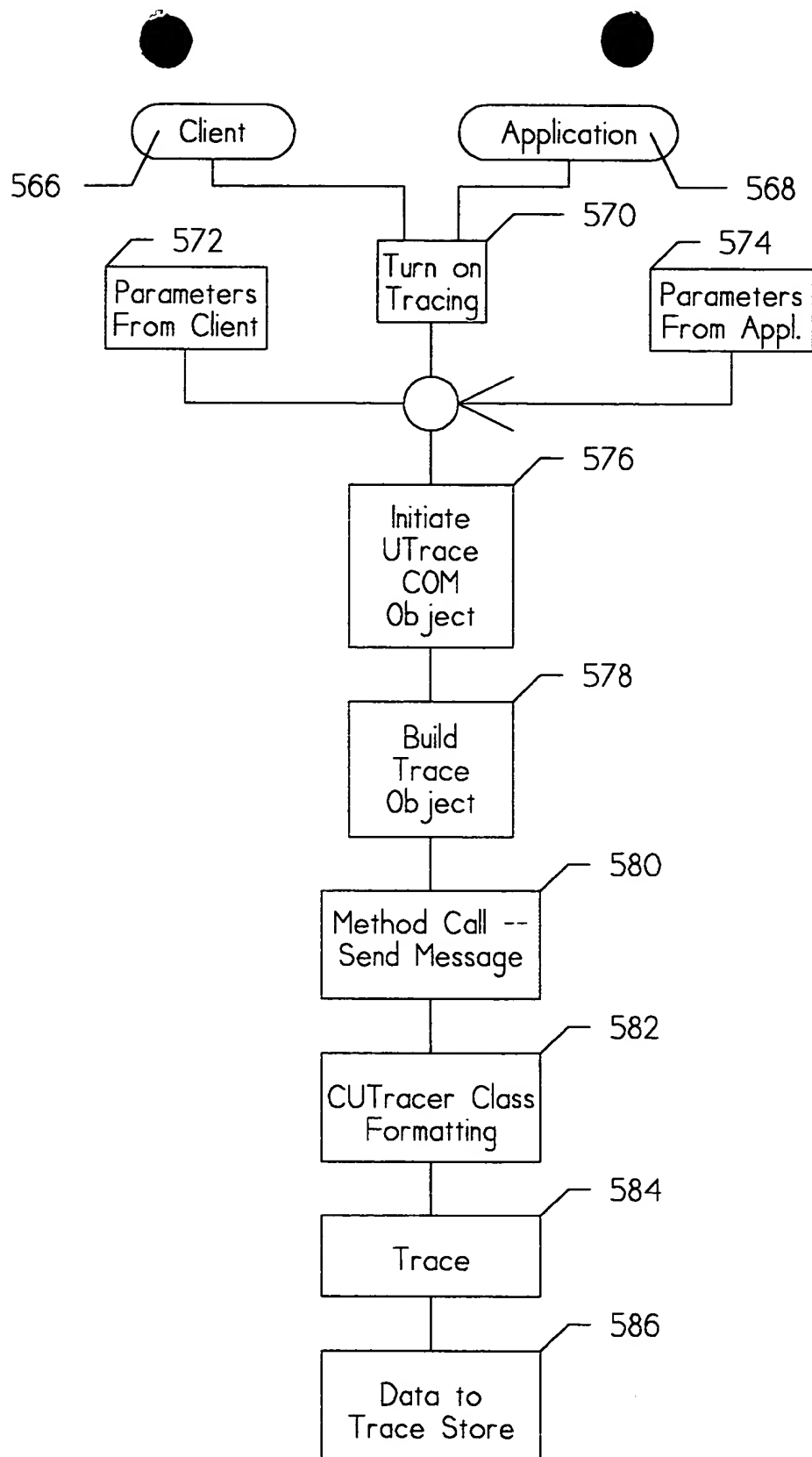


FIG. 19

#define CI_TRACE_VERSION	0x1
#define CI_TRACE_ERROR	0x2
#define CI_TRACE_INTERFACE	0x4
#define CI_TRACE_FLOW	0x8
#define CI_TRACE_DETAIL	0x10

FIG. 20A

```

if (m_trace.Active(CI_TRACE_DETAIL))
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit

```

FIG. 20B

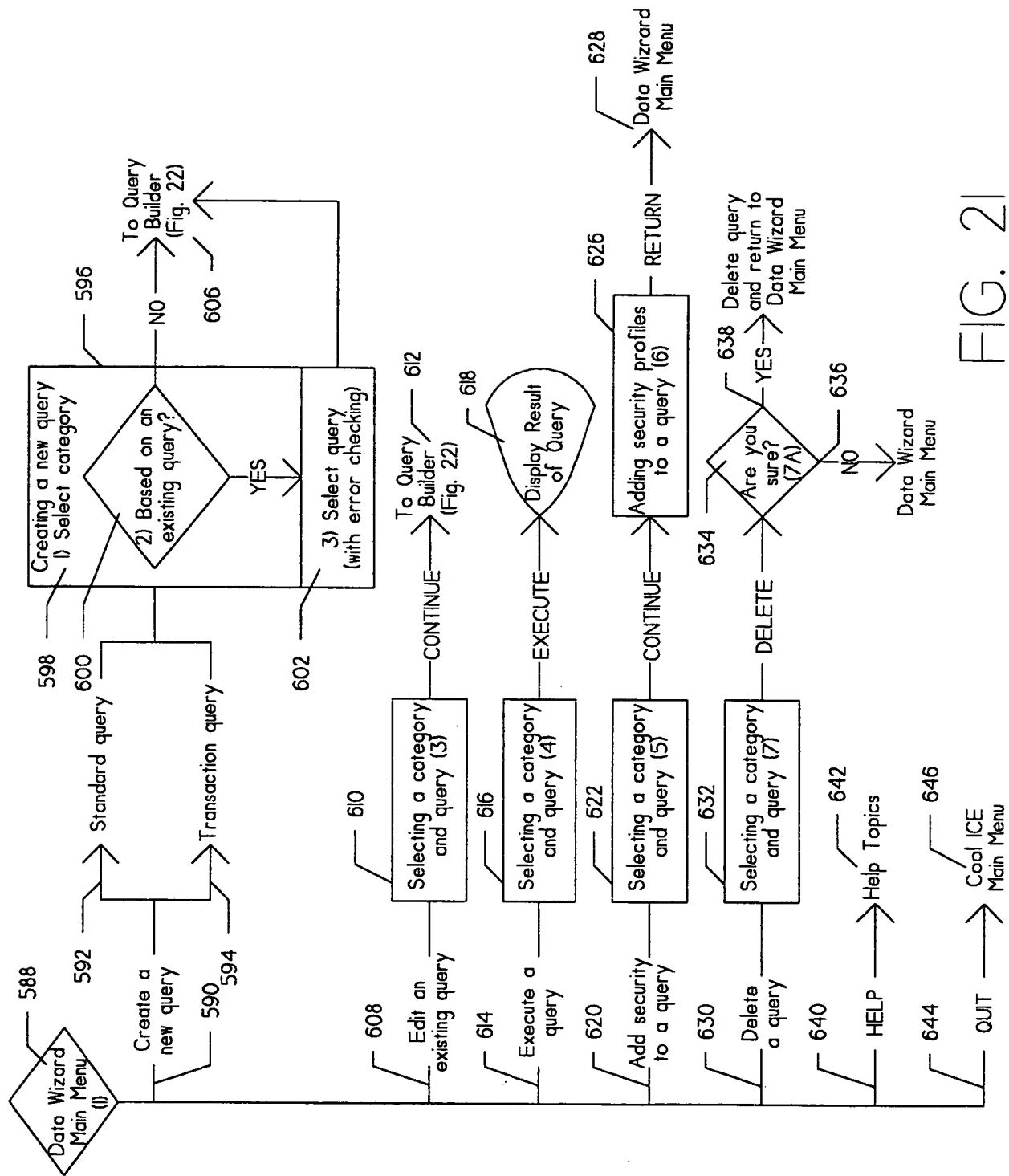


FIG. 21

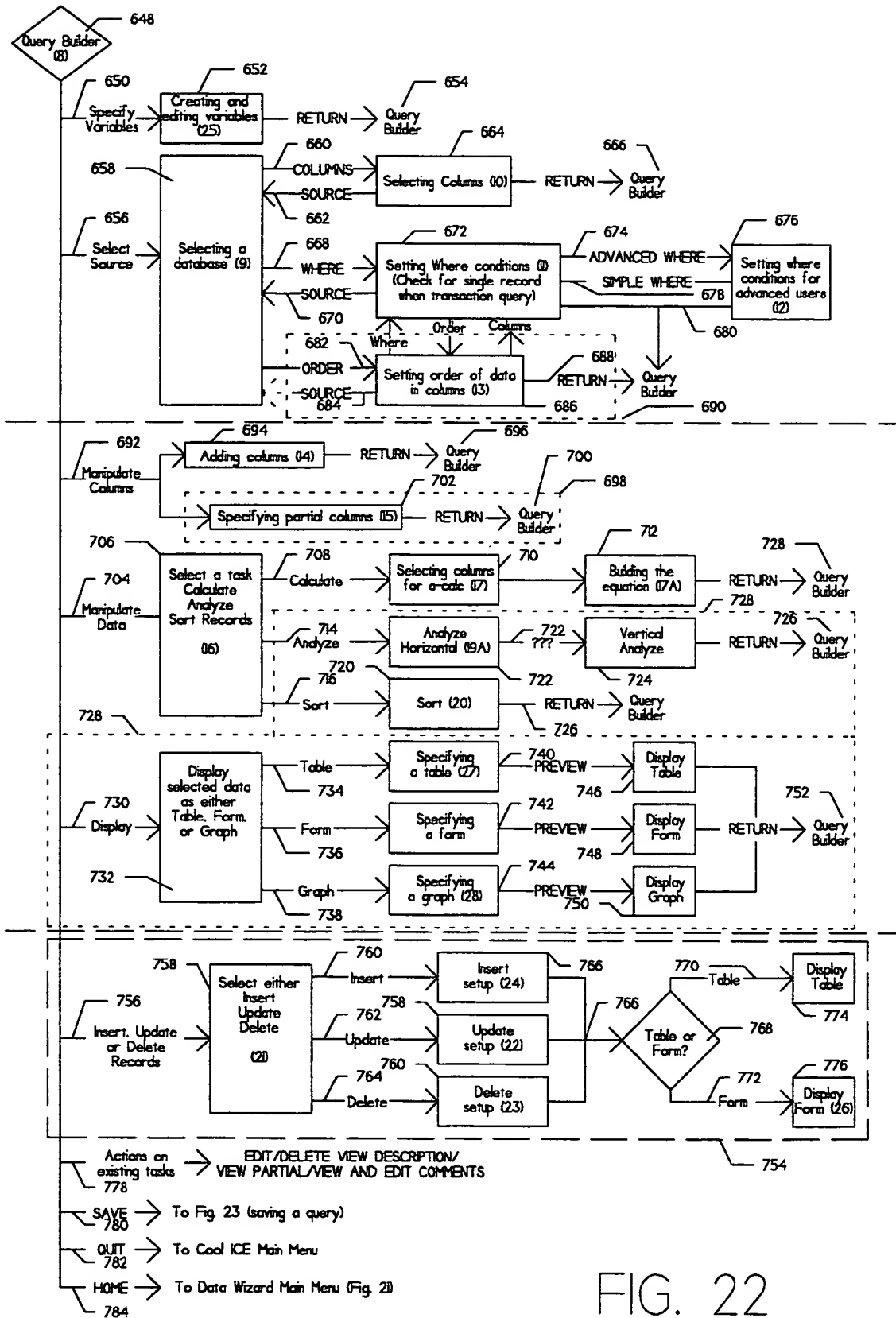


FIG. 22

FIG. 22A is a flowchart illustrating a query building process. The process begins with a decision diamond 648 labeled "Query Builder (8)". From 648, the flow proceeds to a process box 650 labeled "Specify Variables". From 650, the flow proceeds to a process box 652 labeled "Creating and editing variables (25)". From 652, the flow proceeds to a process box 654 labeled "Query Builder". From 654, the flow proceeds to a process box 660 labeled "Columns". From 660, the flow proceeds to a process box 662 labeled "Source". From 662, the flow proceeds to a process box 664 labeled "Query Builder". From 664, the flow proceeds to a process box 666 labeled "Return". From 666, the flow proceeds to a process box 668 labeled "Where". From 668, the flow proceeds to a process box 670 labeled "Source". From 670, the flow proceeds to a process box 672 labeled "Setting Where conditions (II) (Check for single record when transaction query)". From 672, the flow proceeds to a process box 674 labeled "Advanced Where". From 674, the flow proceeds to a process box 676 labeled "Setting where conditions for advanced users (12)". From 676, the flow proceeds to a process box 680 labeled "Query Builder". From 680, the flow proceeds to a process box 682 labeled "Where". From 682, the flow proceeds to a process box 684 labeled "Order". From 684, the flow proceeds to a process box 686 labeled "Setting order of data in columns (13)". From 686, the flow proceeds to a process box 688 labeled "Return". From 688, the flow proceeds to a process box 690 labeled "Query Builder".

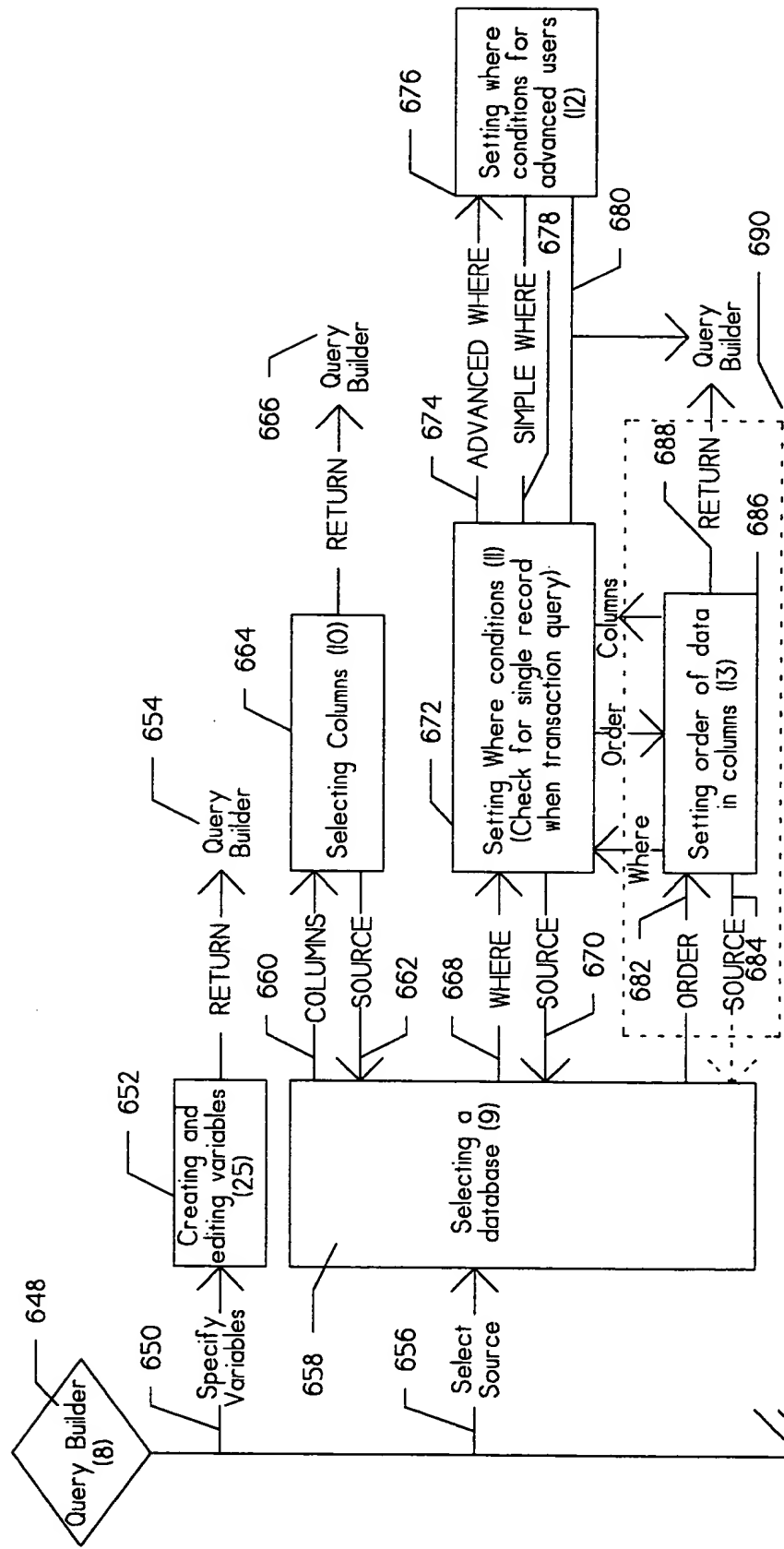


FIG. 22A

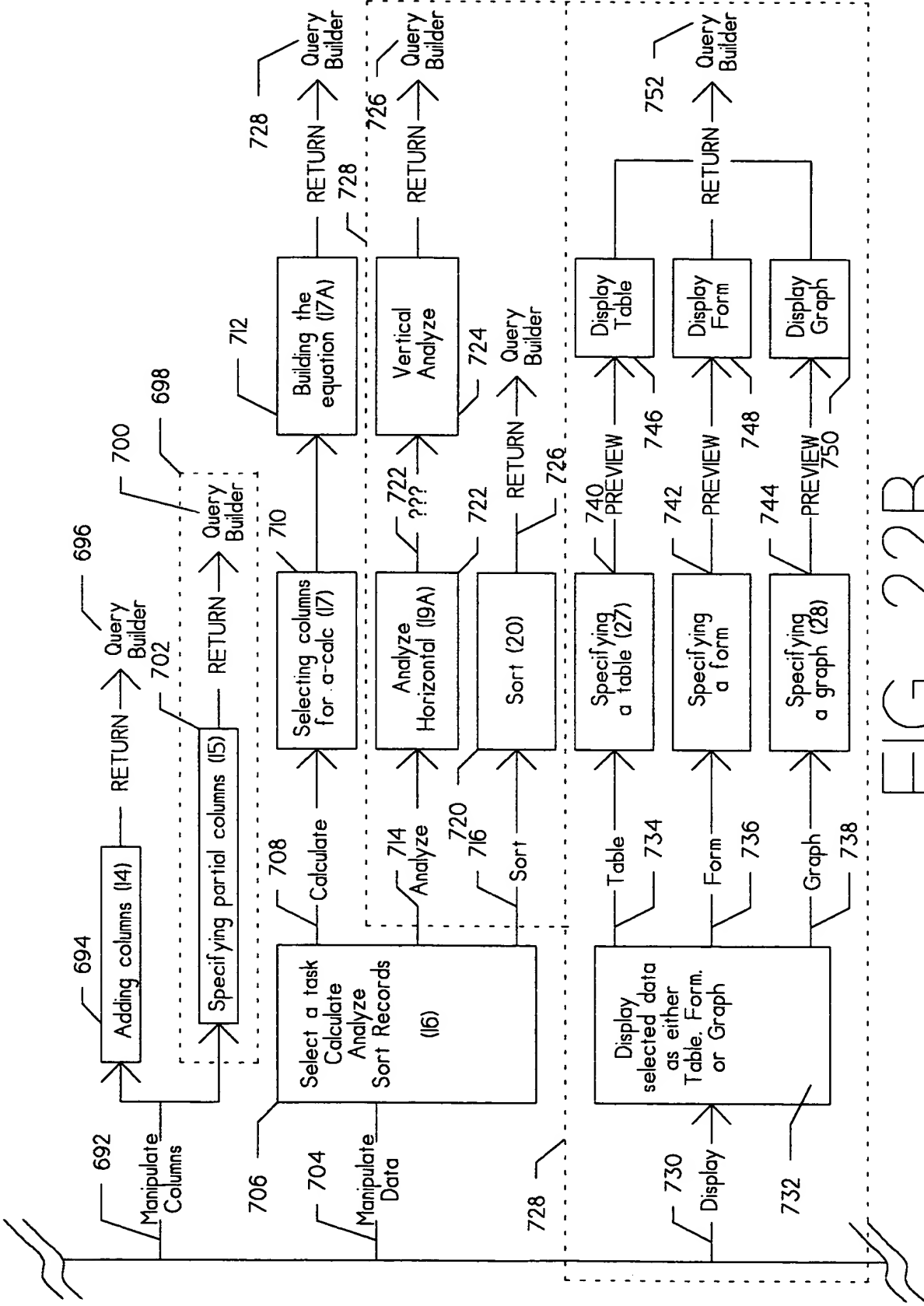


FIG. 22B

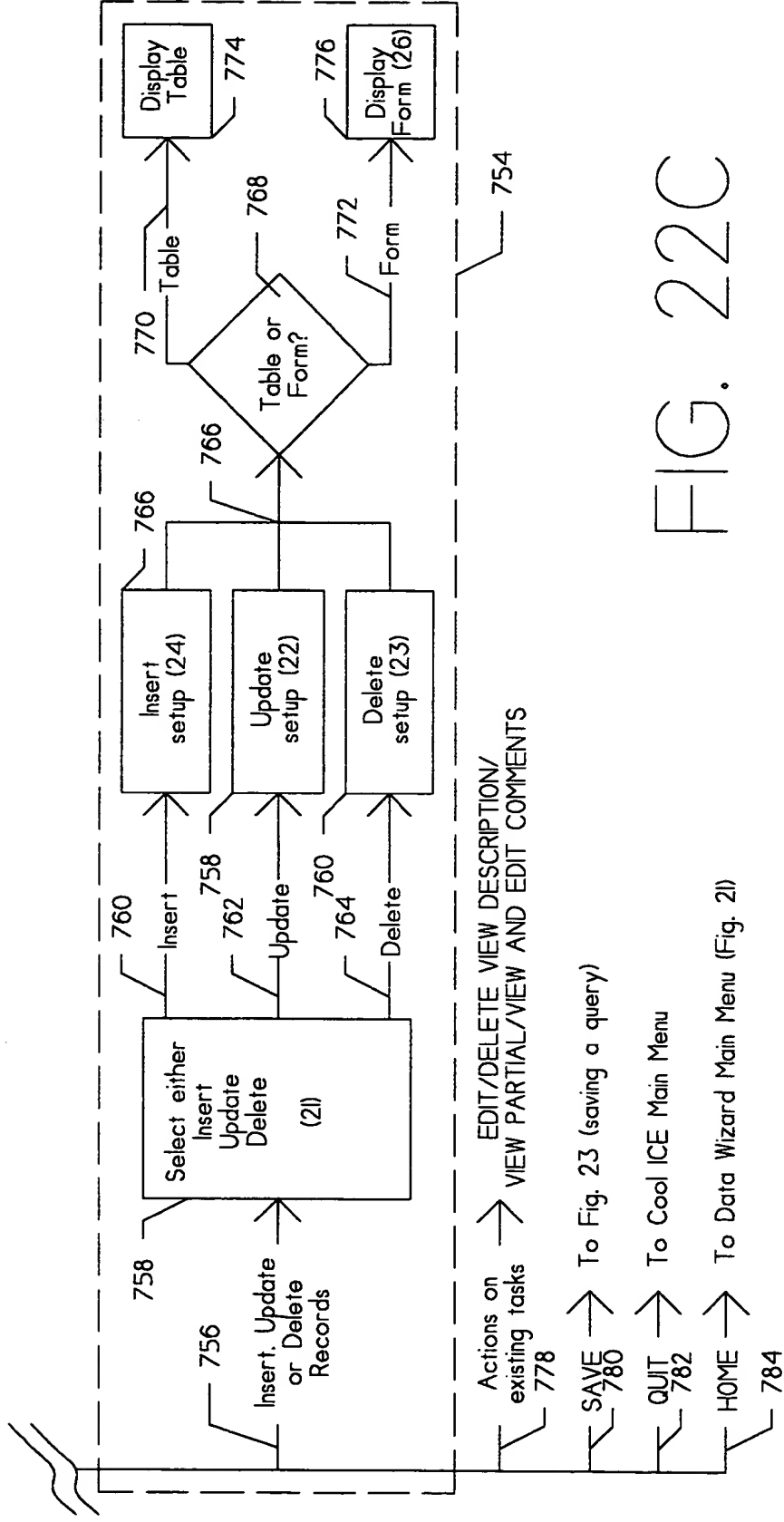


FIG. 22C

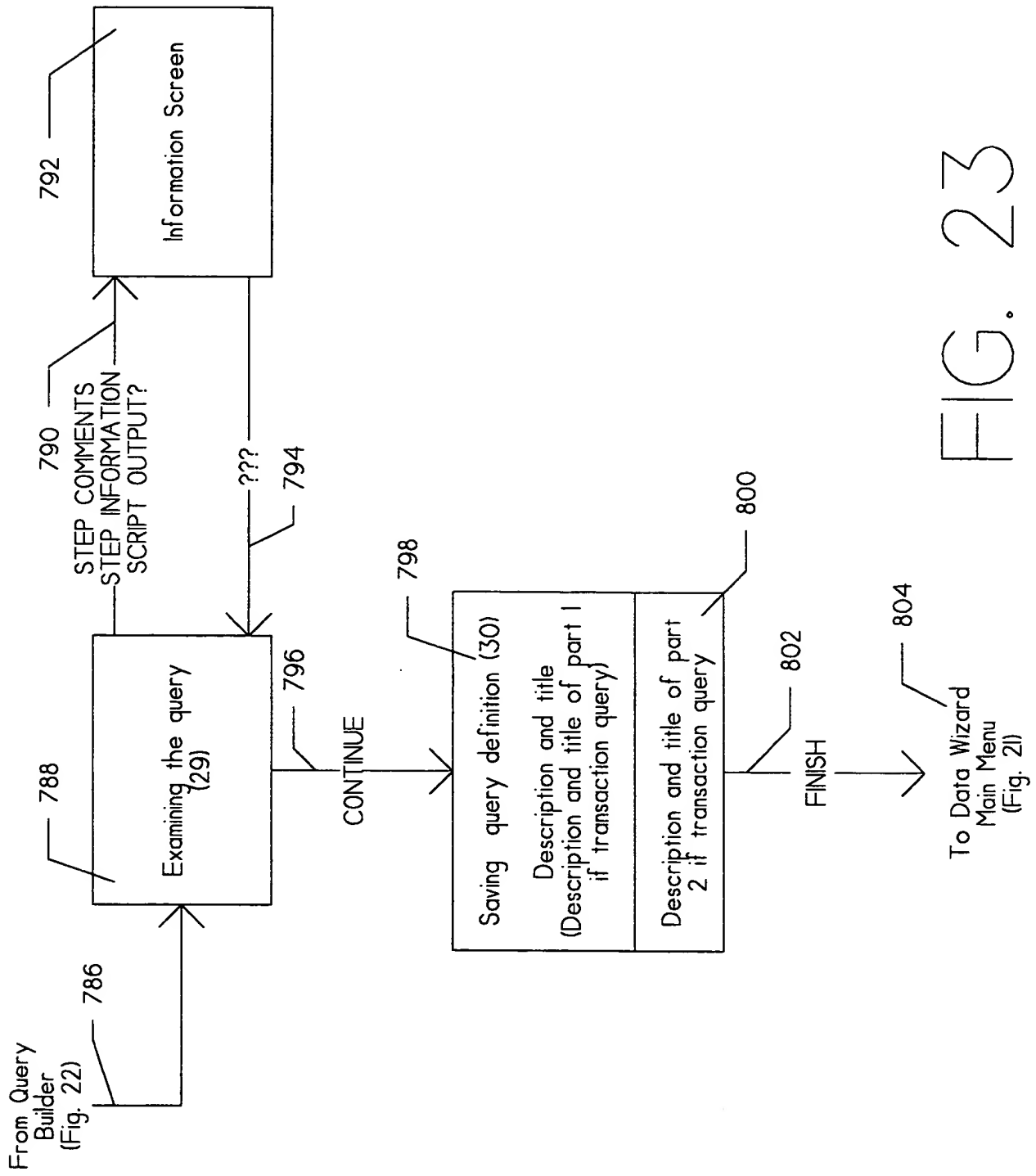


FIG. 23

Data Wizard Home Screen

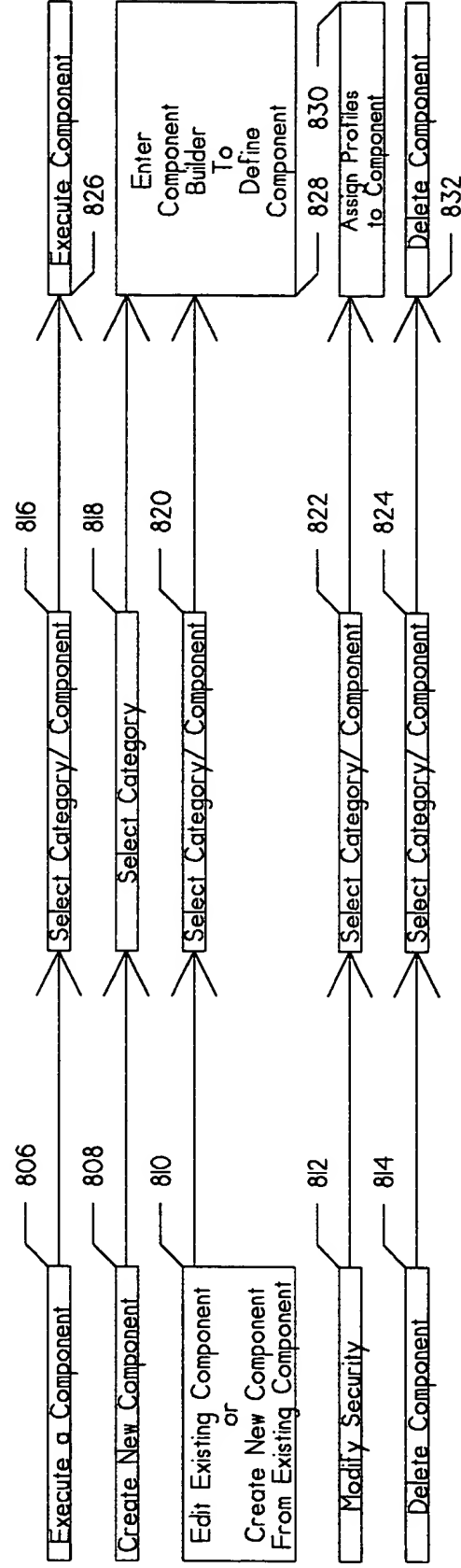


FIG. 24

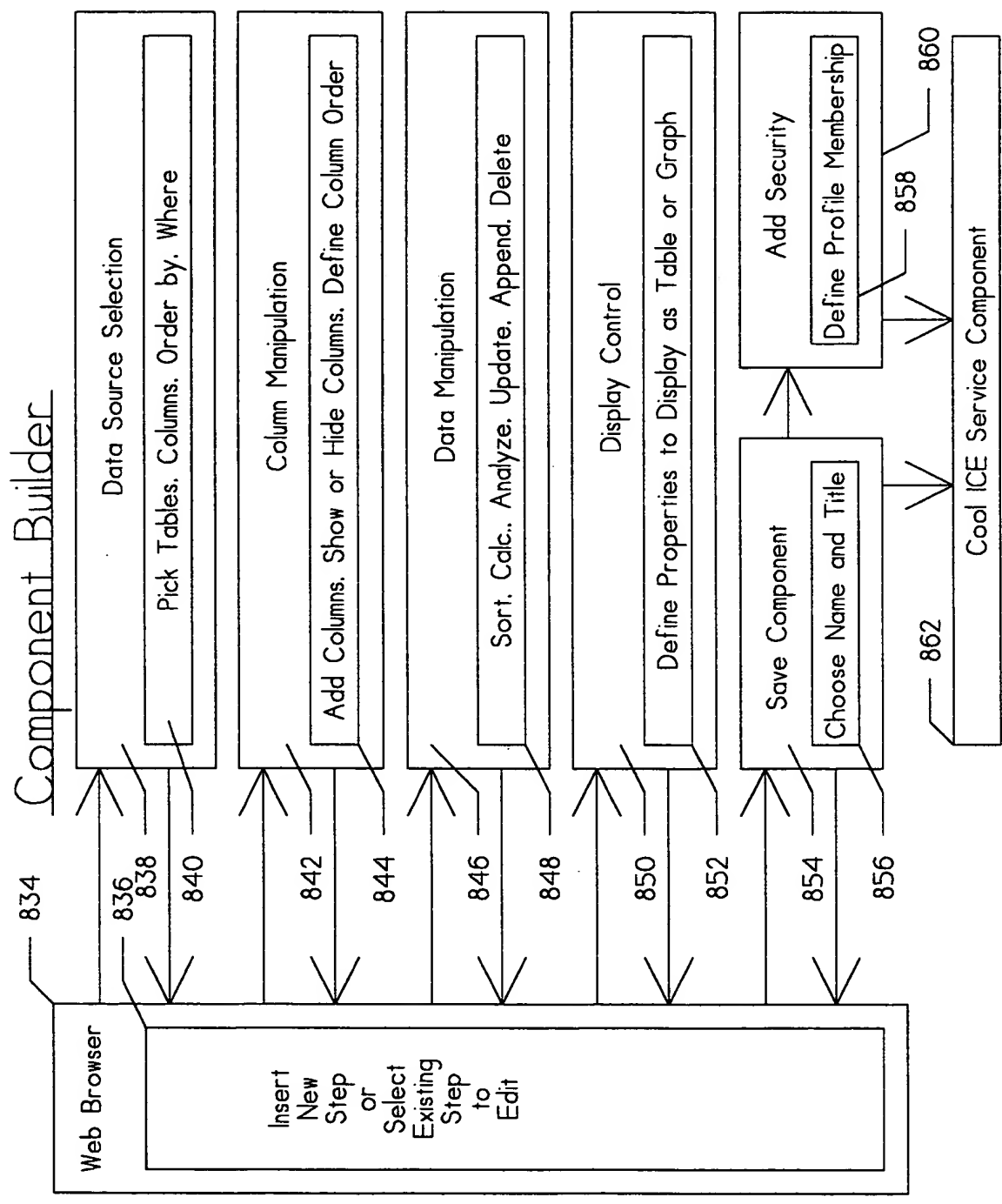


FIG. 25

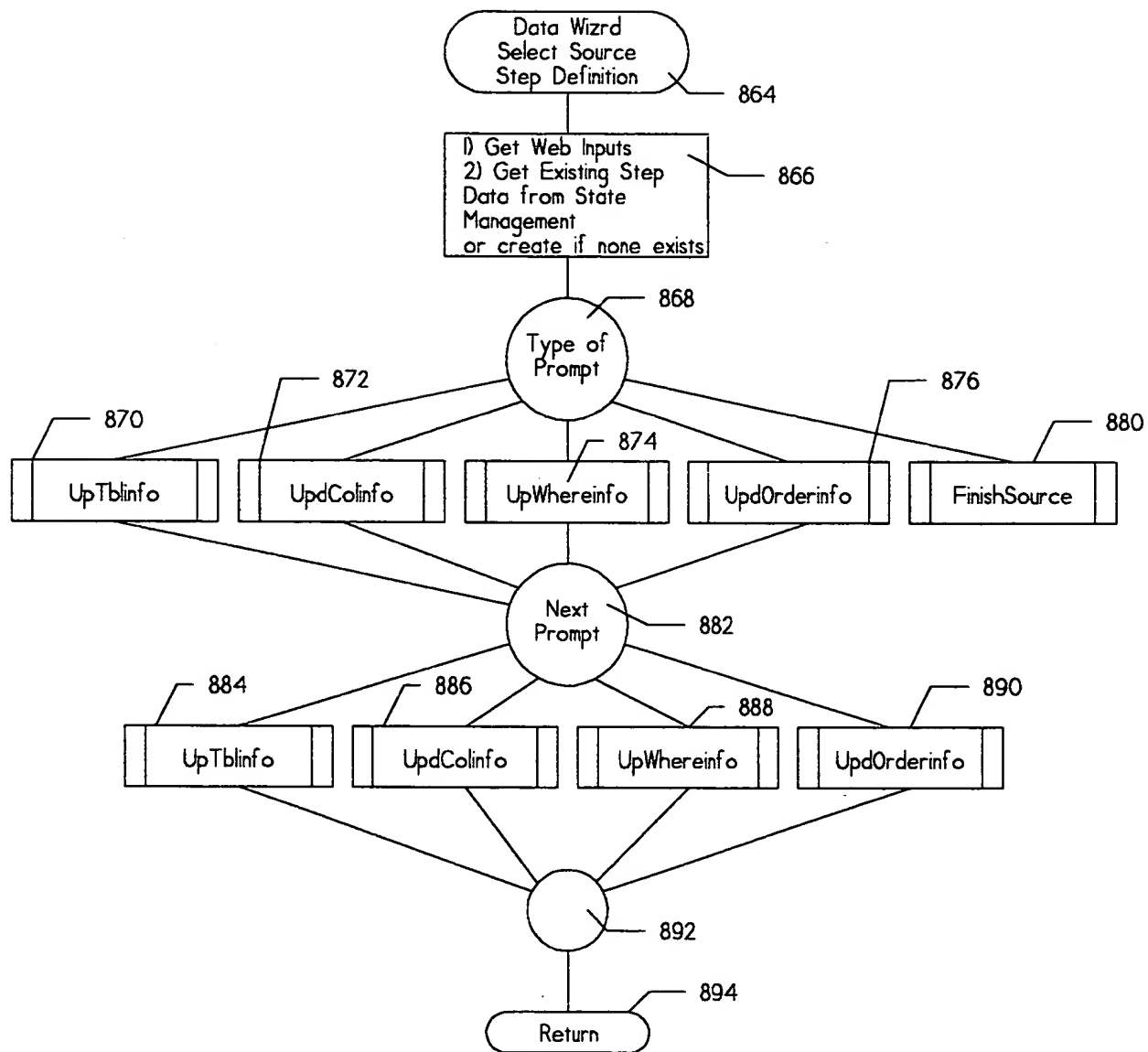


FIG. 26

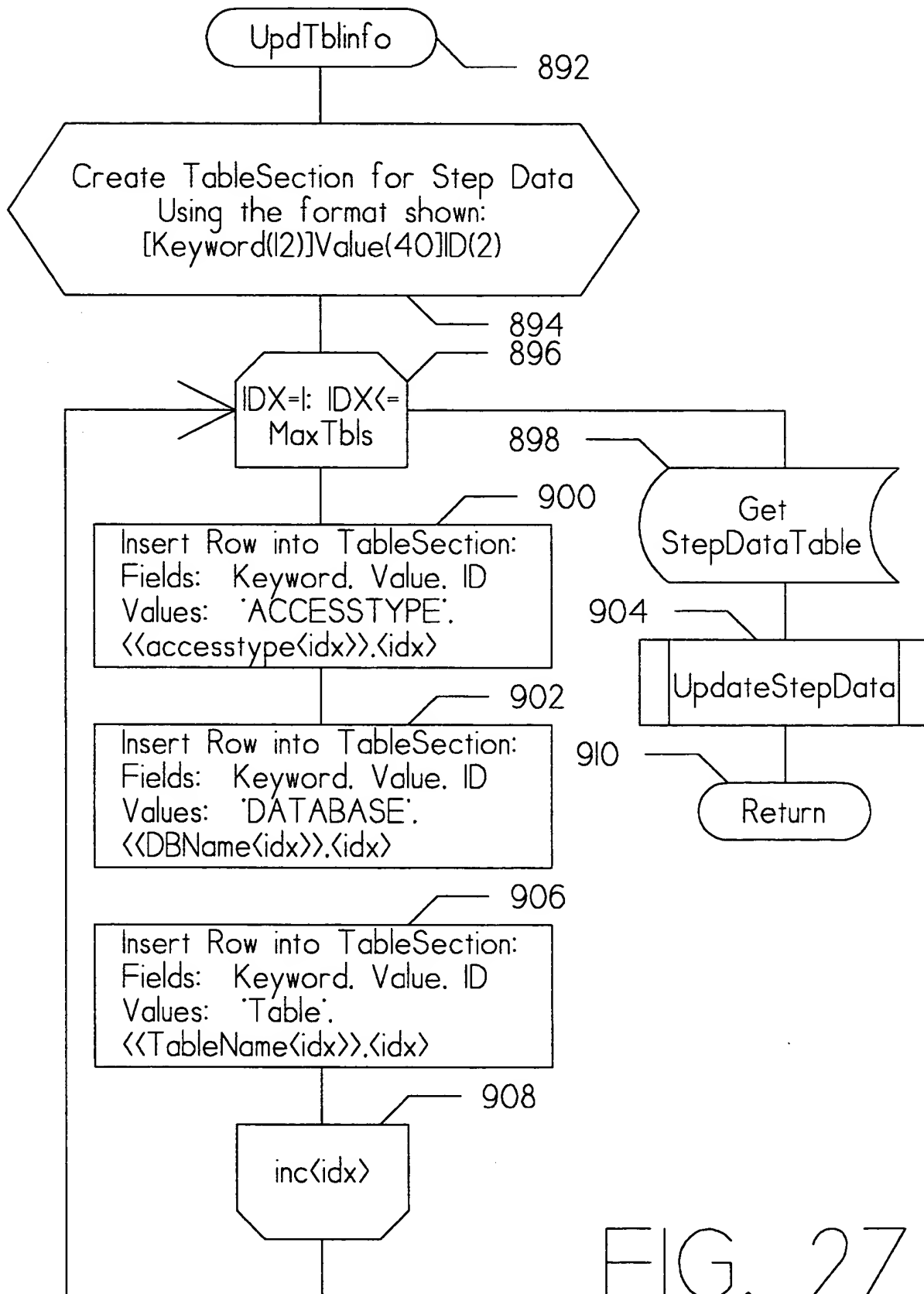


FIG. 27

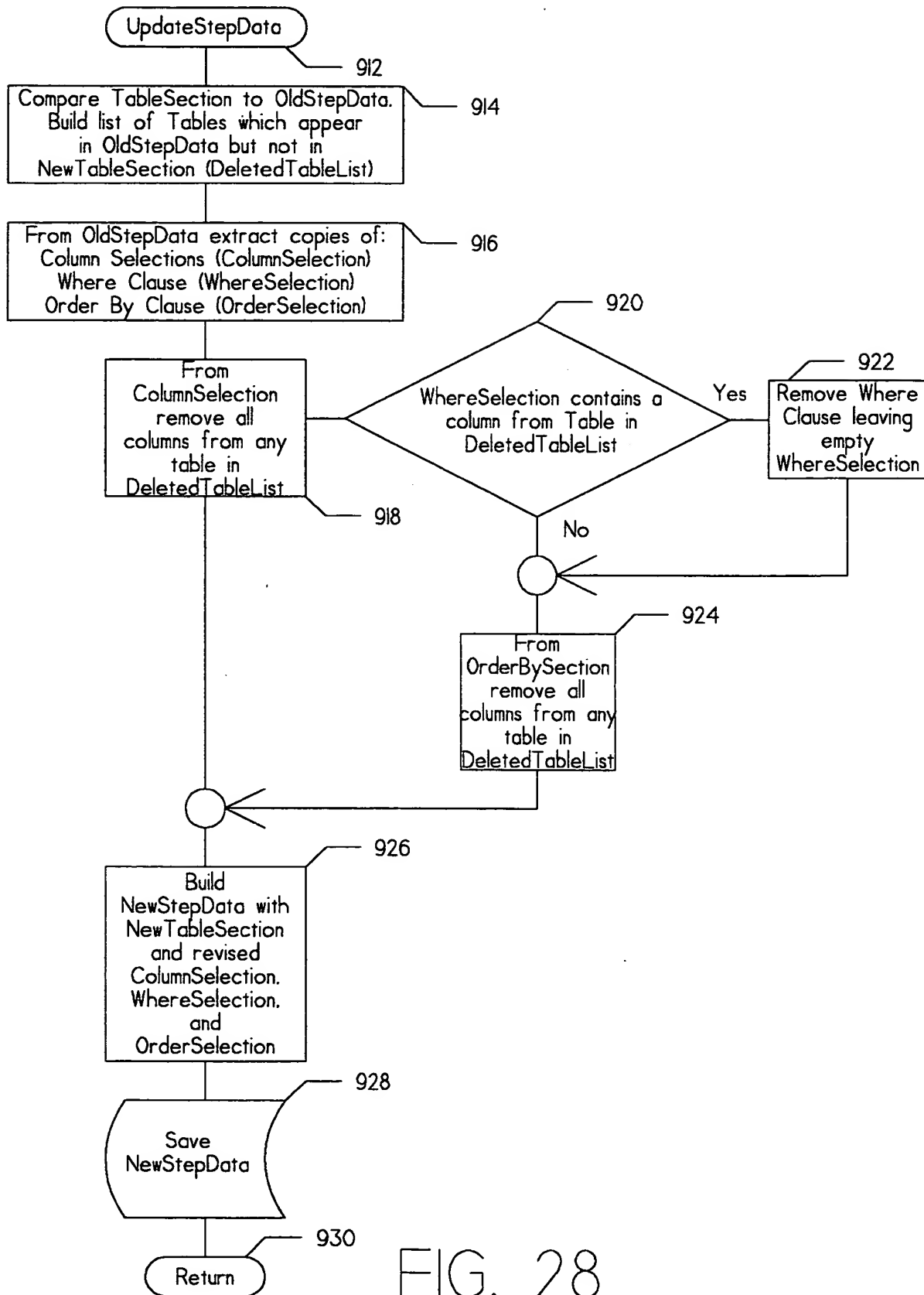


FIG. 28

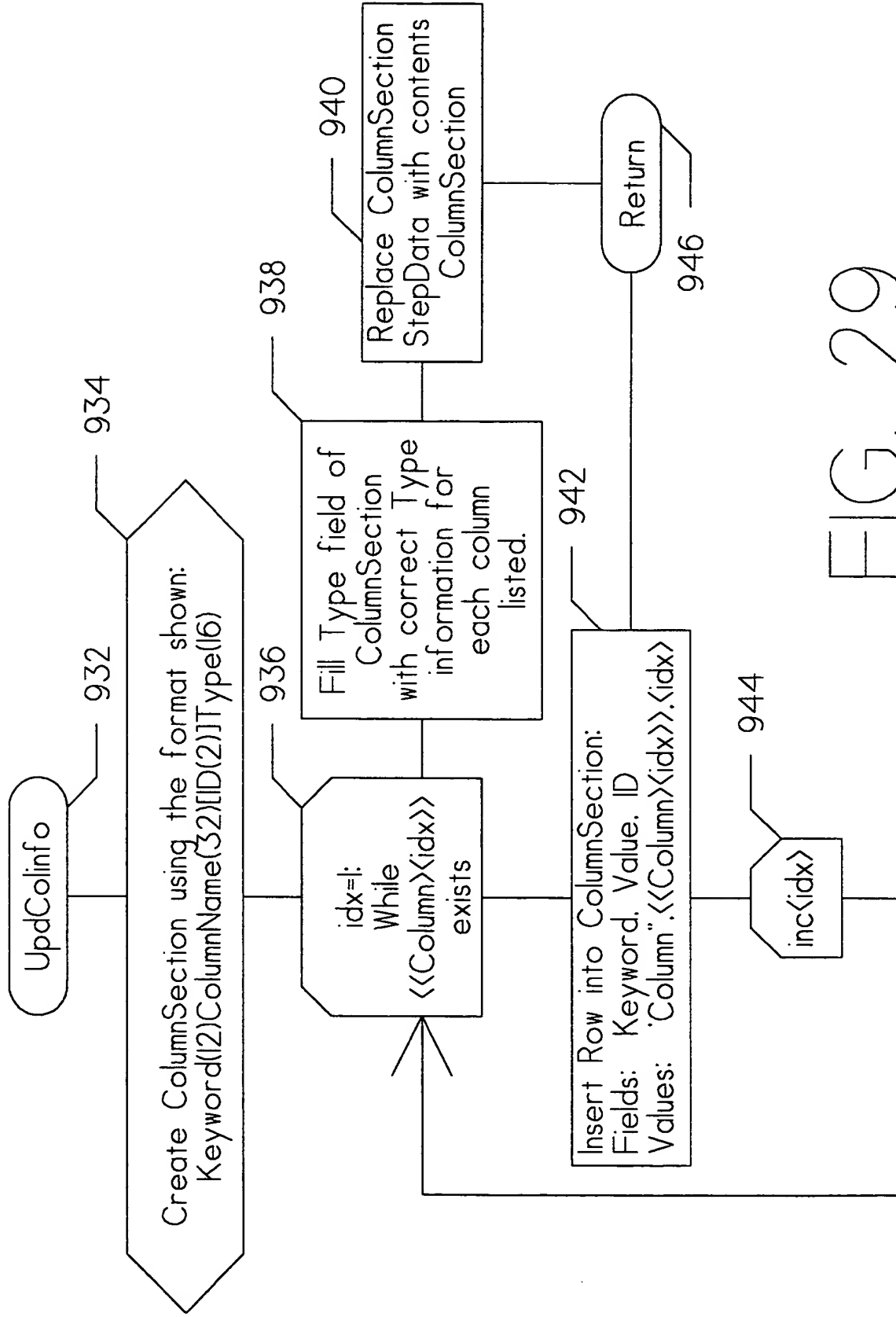


FIG. 29

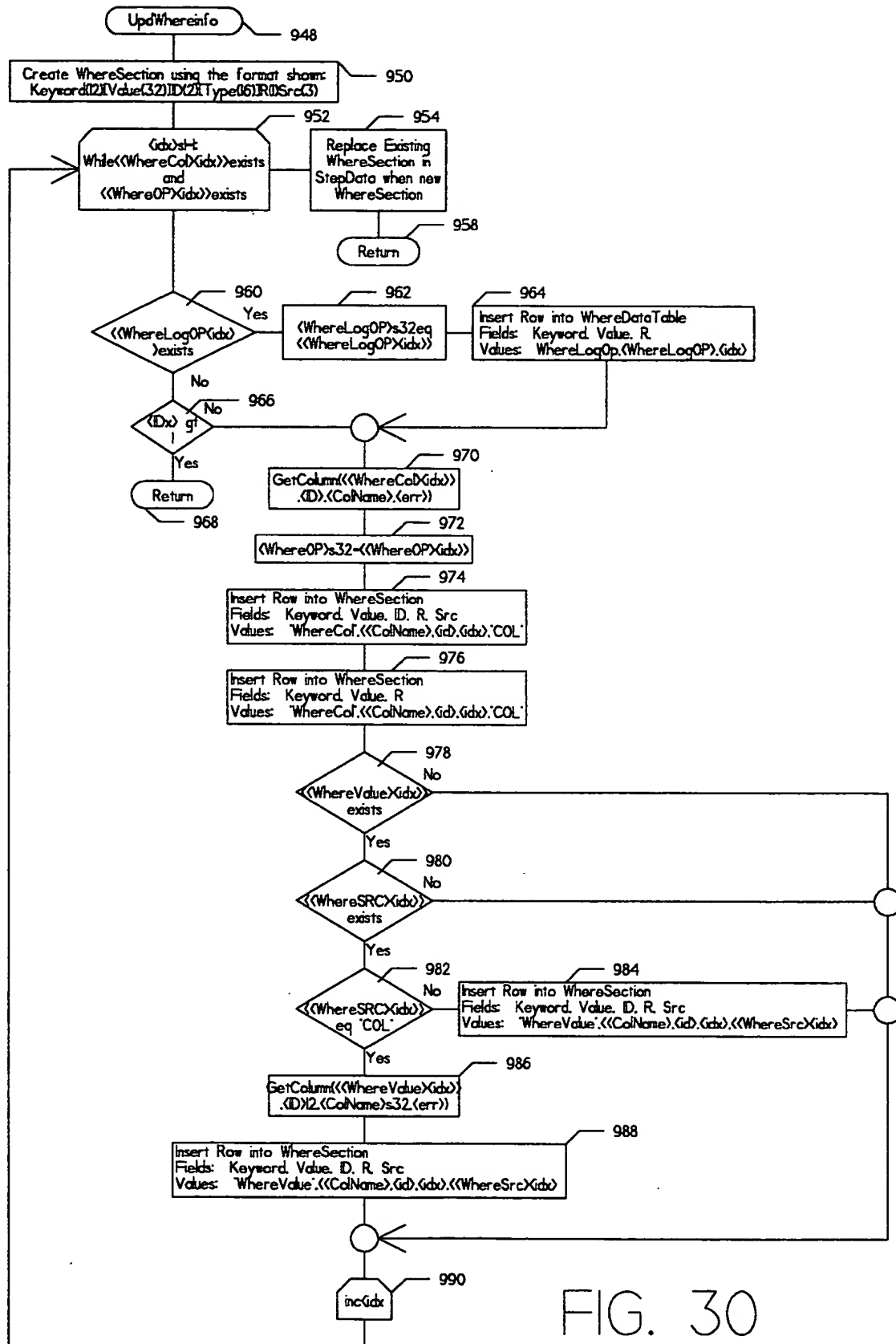


FIG. 30

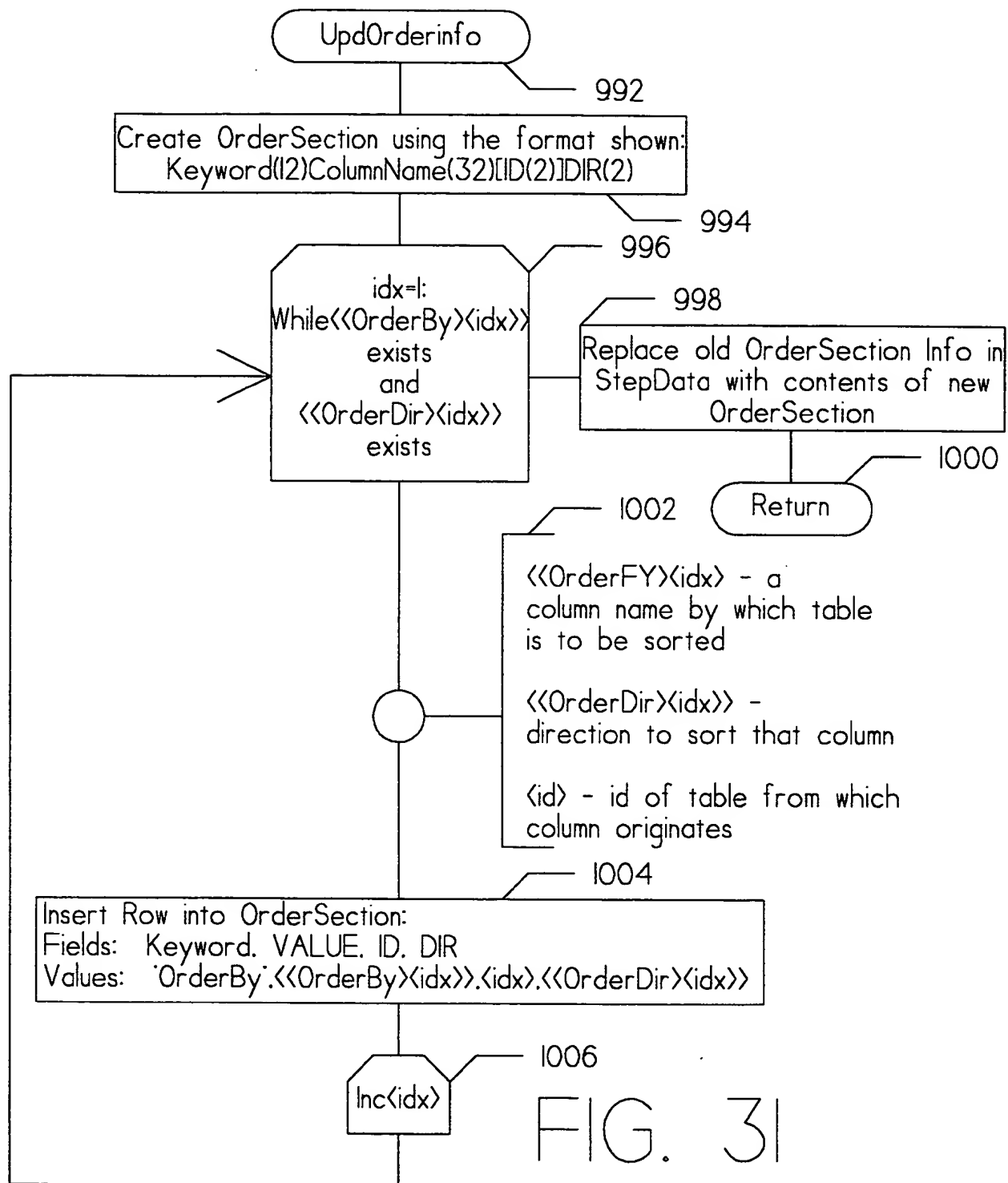
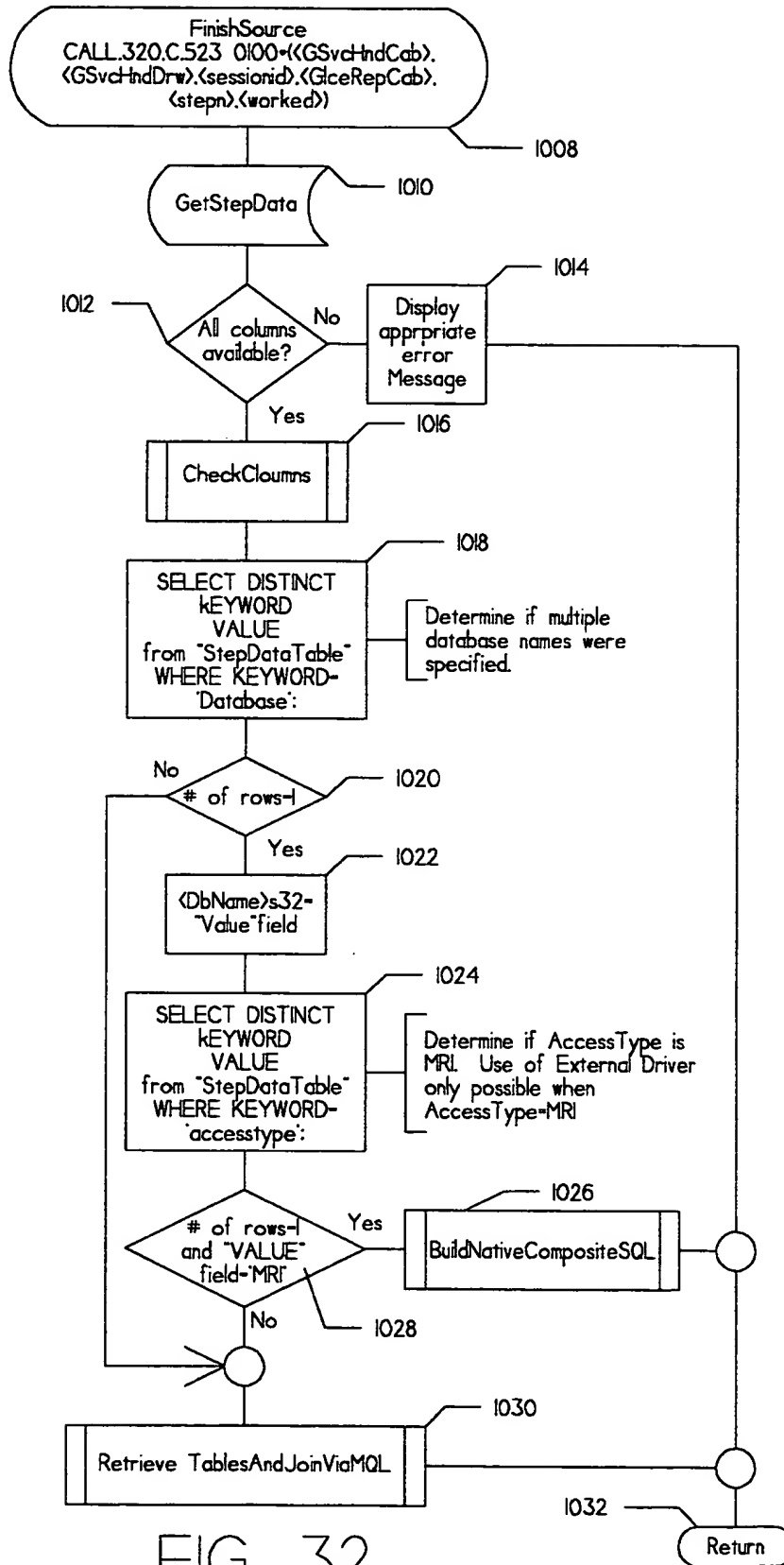


FIG. 31



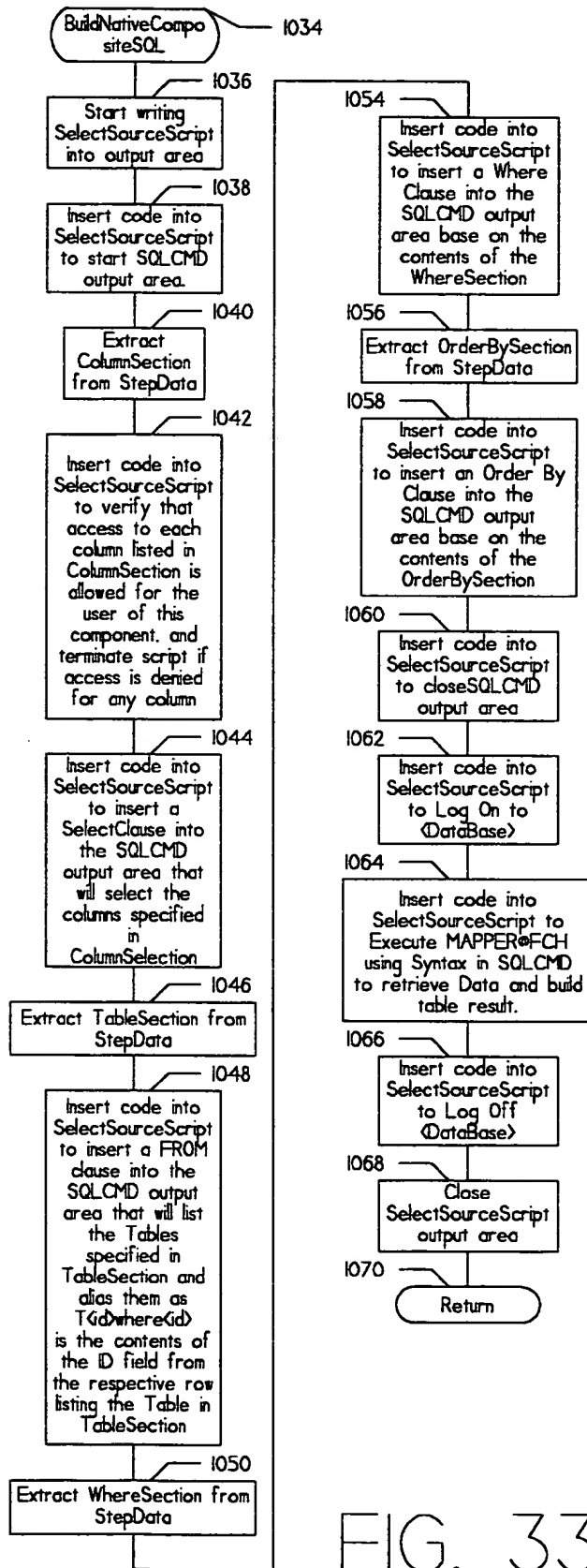


FIG. 33

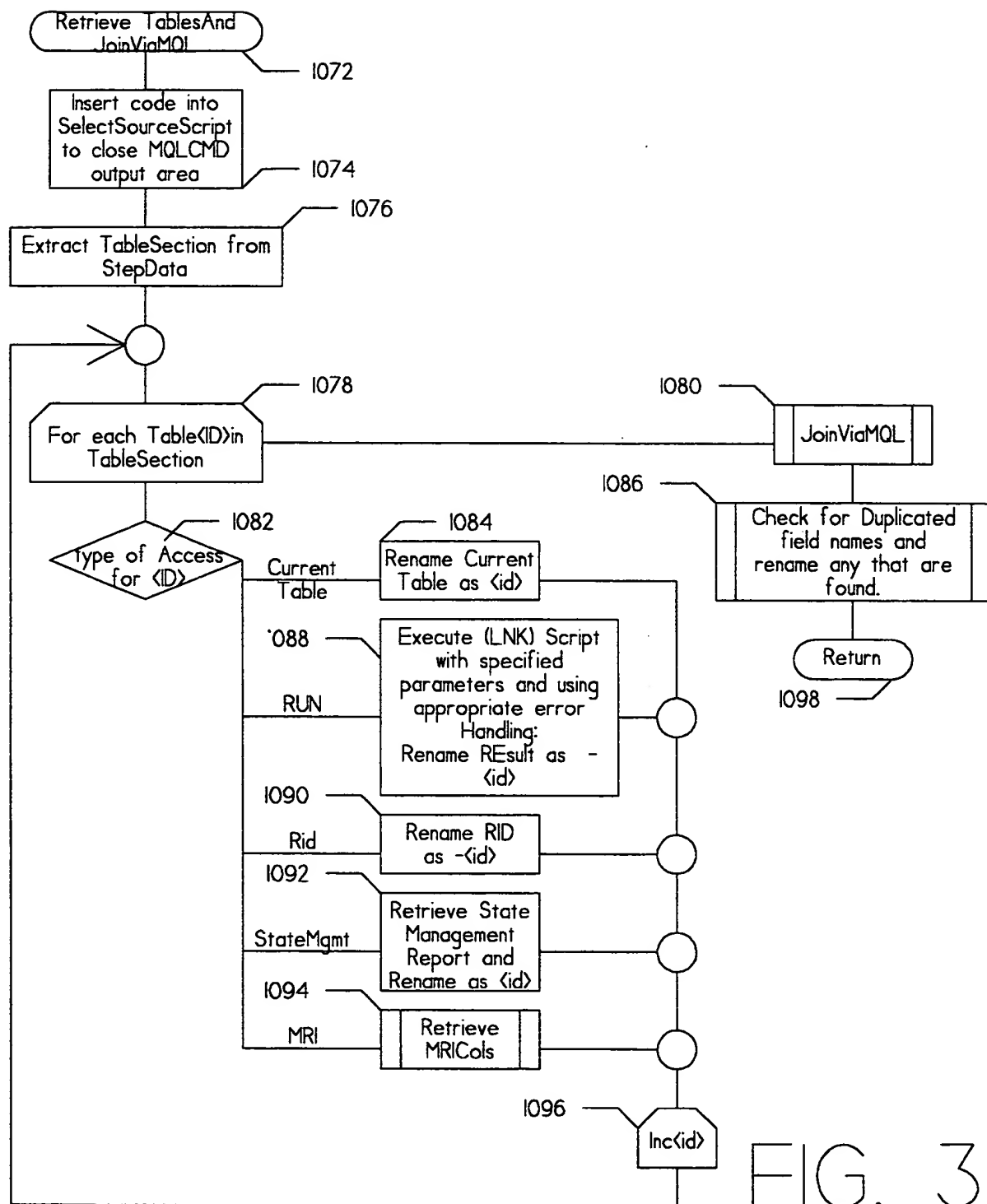


FIG. 34

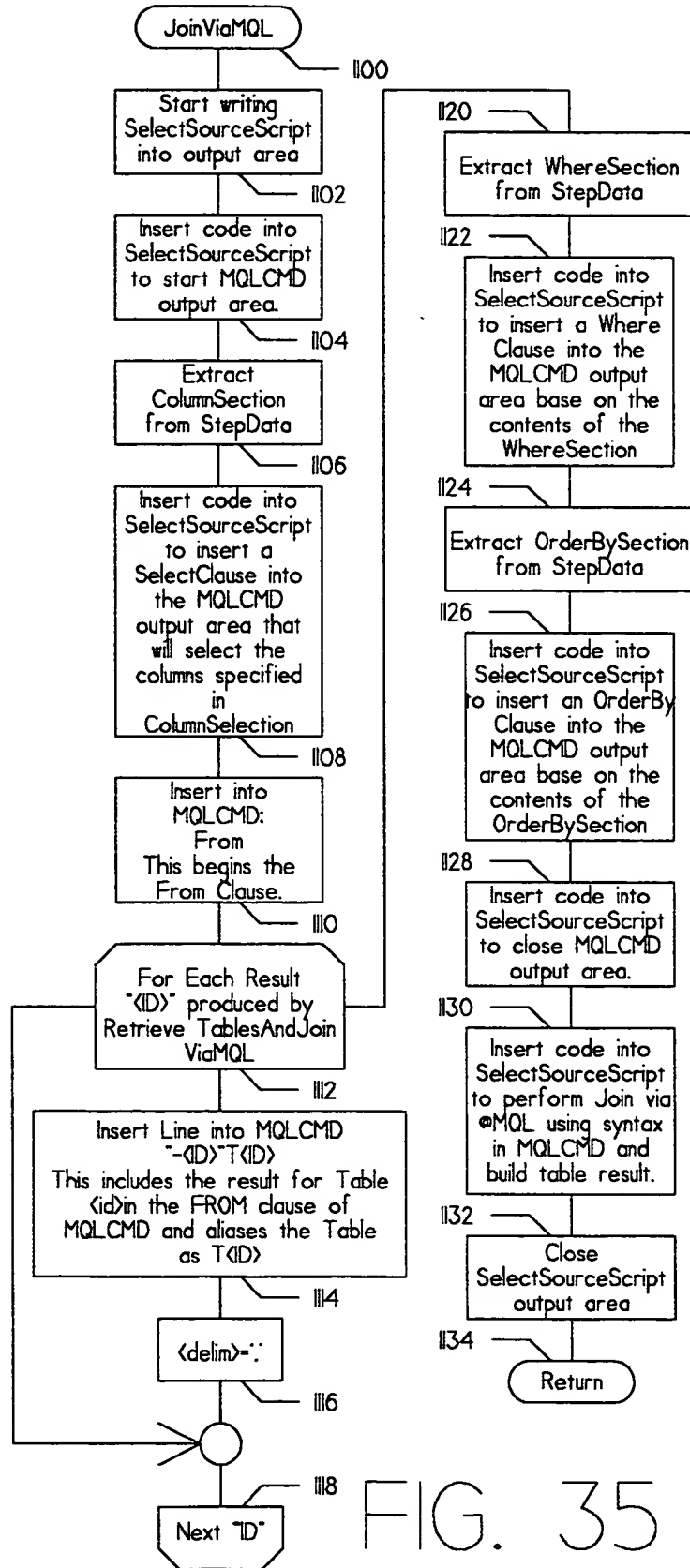


FIG. 35